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# FOUNDATION INVESTIGATION OF THE UPSTREAM SWITCHYARD OF WILSON DAM POWERPLANT: MICROGRAVITY SURVEY

by

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GEOTECHNICAL LABORATORY

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A microgravity survey consisting of 347 stations was conducted in the upstream switchyard of the Wilson Dam powerplant. The objective of the survey was the detection of subsurface cavities or other anomalous conditions that could threaten the integrity of the switchyard structures. Six anomalous areas were identified on the gravity anomaly map and ranked for their interpreted significance. From these results, nine boring locations were selected to investigate the cause of the anomalies. This report presents details of the field survey, data processing interpretations, and recommended drilling locations for subsurface investigation.

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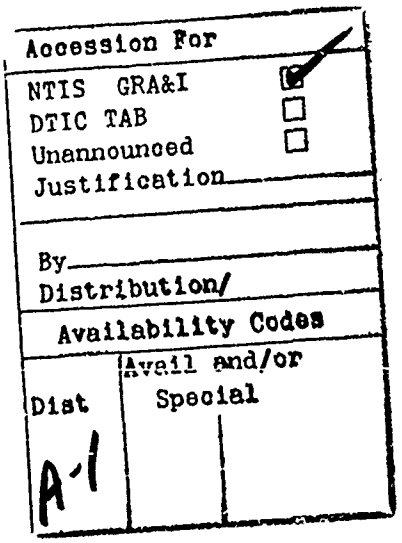
## Preface

This report documents the microgravity survey conducted by the US Army Engineer Waterways Experiment Station (WES) for the Wilson Hydro Project Upstream Switchyard Subsurface Investigation, Wilson Dam, Florence, AL. The work was performed during the period 1 August through 31 December 1989 for the Tennessee Valley Authority (TVA), Power Engineering and Construction, Fossil and Hydro Engineering, Civil Engineering Department, Chattanooga, TN.

Mr. Harold L. Petty, Civil Engineering Department, Power Engineering and Construction, TVA, was Project Monitor for this work.

Mr. Donald E. Yule of the Earthquake Engineering and Seismology Branch (EESB), Earthquake Engineering and Geosciences Division (EEGD), Geotechnical Laboratory (GL), WES, was the Project Engineer for this study. Mr. Michael K. Sharp and Dr. Dwain K. Butler, Engineering Geophysics Branch (EGB), EEGD, GL, were coinvestigators and co-authors of this report. Dr. Butler provided overall technical supervision for this study. The work was conducted under the direct supervision of Mr. Joseph R. Curro, Jr., Chief, EGB; Dr. Mary Ellen Hynes, Chief, EESB; and Dr. Arley G. Franklin, Chief, EEGD. The project was under the overall supervision of Dr. William F. Marcuson III, Chief, GL.

COL Larry B. Fulton, EN, was Commander and Director of WES during the investigation. Dr. Robert W. Whalin was Technical Director.

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## Conversion Factors, Non-SI To SI (Metric) Units Of Measurement

Non-SI units of measurement used in this report can be converted to SI (metric) units as follows:

| Multiply | By | To Obtain |
|---|---|---|
| degrees (angle) | 0.01745329 | radians |
| feet | 0.3048 | metres |
| inches | 2.54 | centimetres |
| miles (US statute) | 1.609347 | kilometres |

# FOUNDATION INVESTIGATION OF THE UPSTREAM SWITCHYARD OF WILSON DAM POWERPLANT: MICROGRAVITY SURVEY


## Summary

1. A microgravity survey consisting of 347 stations was conducted by personnel of the US Army Engineer Waterways Experiment Station (WES) in the upstream switchyard of Wilson Dam powerplant during August 1989. The objective of the survey was the detection of subsurface cavities or other anomalous conditions which could threaten the integrity of the switchyard and continuing operation of the powerplant. Preliminary results of the survey were forwarded to the Tennessee Valley Authority (TVA) in September 1989. Six anomalous areas were identified on the gravity anomaly contour map, and nine boring locations were selected to investigate the cause of the anomalies. The anomalies were ranked according to their interpreted significance. Eight boring location recommendations were in negative gravity anomaly areas, since negative anomalies could be caused by actual cavities or low density zones which might represent incipient cavity formation. The remaining boring location was in a positive anomaly area for verification purposes. Based on their familiarity with switchyard conditions, TVA personnel added two boring locations to a proposed subsurface investigation program (TVA 1989). This report presents details of the field survey, data processing, interpretations, and recommendations.


## Background

2. In 1974, a cavity was discovered in foundation fill material beneath the upstream switchyard of Wilson Dam powerplant. The cavity was about 10 ft* in diameter, extended to within 2 ft of the surface, and was manifested by a surface depression. After filling the cavity with concrete, subsequent exploratory drilling encountered no further cavities beneath the original cavity and above the top of rock. Rock (limestone) was encountered at depths of 38 to 57 ft. Cavities up to 1-1/2 ft in vertical extent were

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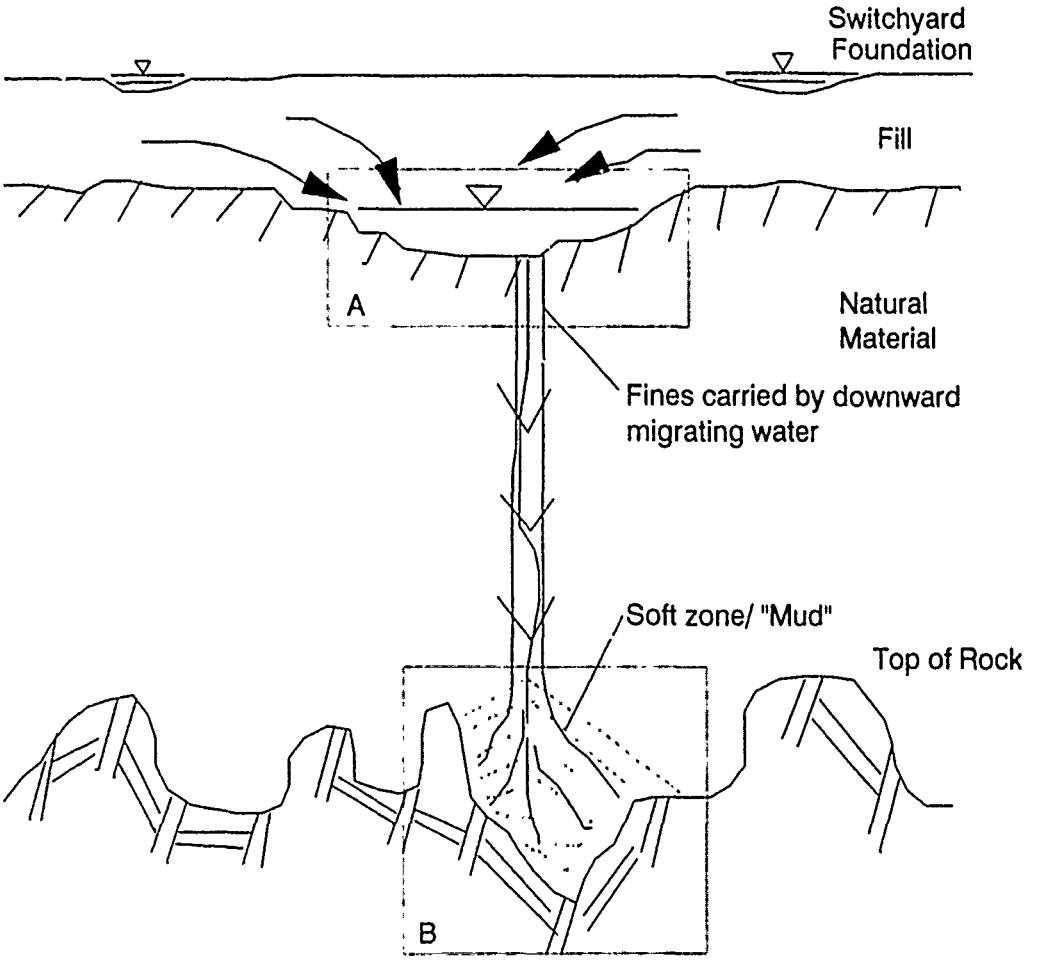
* A table of factors for converting non-SI units of measurement to SI (metric) is presented on page 4.

encountered in the limestone. Concern about the possible existence of other cavities beneath the upstream as well as the downstream switchyard led to a geophysical investigation of the switchyards to detect anomalous foundation conditions. Although other geophysical methods were considered and even field tested (resistivity and seismic methods), microgravity surveying emerged as the only viable geophysical method for application under the severe constraints posed by the above- and below-ground features in the switchyard.

3. In September 1983, WES conducted a microgravity survey of the Wilson Dam powerplant switchyards. Due to maintenance activities in the upstream switchyard, only a limited survey was possible in the immediate vicinity of the known, filled cavity. The survey consisted of 265 gravity stations in the downstream switchyard and 23 stations in the upstream switchyard. The report on this work (Butler and Yule 1984) presents a gravity anomaly map with several anomalies identified that were prioritized for a verification drilling program. Negative anomalies, which might represent gravity signatures of cavities, were interpreted to give probable depth ranges and maximum depths for the subsurface feature causing each anomaly. Of the 16 borings placed to investigate anomalous conditions, 4 encountered a mud (saturated) zone above the top of rock, 1 encountered a soft zone at a depth consistent with the gravity interpretation, and 1 encountered a significant zone (about 30 ft thick above the top of rock) described as "very soft, possible void." The remainder of the borings, including three placed in positive anomaly areas, were described as encountering no voids. Most of the holes were placed with a power auger, which made it difficult to determine the actual condition of subsurface materials, although true voids should have been evident.

4. Results of the microgravity survey and the verification drilling program led to a postulated mechanism for the formation of cavities in the foundation fill material. The microgravity survey detected well-defined negative (low) gravity anomaly areas, indicative of localized low density conditions in the subsurface. The verification drilling program detected noticeably "soft" zones during drilling and in several instances encountered "mud" zones ranging from 2 to 10 ft just above the top of rock. These results suggest the conceptual model shown in Figure 1, where the low gravity anomalies are produced as a result of piping of fill material downward by infiltration of water collecting in shallow surface depressions or water seeping from localized leaks (cracks) in concrete-lined channels and conduits. The water and sediment collect in grikes or depressions of the pinnacled




MODEL:

1) During rainfall, water is "ponded" in depressions.

2) This water then flows into a subsurface feature "A" which has a flow path to the bedrock.

3) Fines are carried downward by groundwater.

4) Softzone or "mud" is formed at top of rock and a void begins to form at depression "B". This means A and B could be the start of a cavity formation.

Figure 1. Proposed mechanism for cavity formation in switchyards

limestone surface and eventually find their way into the solution-widened fractures and joints and cavities of the karst "drainage system" of the limestone.

5. There is still concern over the possible existence of cavities beneath the upstream switchyard, heightened by the formation of shallow surface depressions where water collects for short periods after each rainfall. This concern led to the microgravity survey of the upstream switchyard documented in this report. The TVA requested the present survey in order to rationally plan subsurface exploration for the detection of cavities in the switchyard foundation. Drilling in the switchyards is hazardous due to the dense network of overhead structures (including high voltage cables) and underground conduits. Thus, now, as was the case for the prior drilling program in the downstream switchyard, random drilling is ill-advised and rational placement of boreholes is a must.

## Survey Details and Field Procedures

6. The general location of the switchyard and survey grid is presented in Figure 2. This figure also shows the grid coordinate system used in the data plots and its correlation with the land survey coordinate system. The survey grid was established and elevations determined by a TVA survey team, and the microgravity measurements were performed by WES personnel. The grid consisted of 347 stations. At each station a 2- by 2-in. stake was driven flush with the ground surface. Elevations of the top of the stakes were determined with an accuracy of 0.01 ft. A basic grid dimension of 10 ft was used in the interior of the area, around all major structures, and modified as required by locations of concrete foundation pads and cable trenches; in the easternmost portion of the area, the grid dimension was increased to 20 ft. Figure 3 shows the survey grid superimposed on a simplified map of the upstream switchyard which shows locations of the major features. Figure 4 is a view of the upstream switchyard showing the survey grid. The aboveground stakes are offset from the station location, are labeled with station coordinates, and allow rapid station location during the micro-gravity survey. Station L8, coordinates (x,y:100,110), was established as the gravity base station.

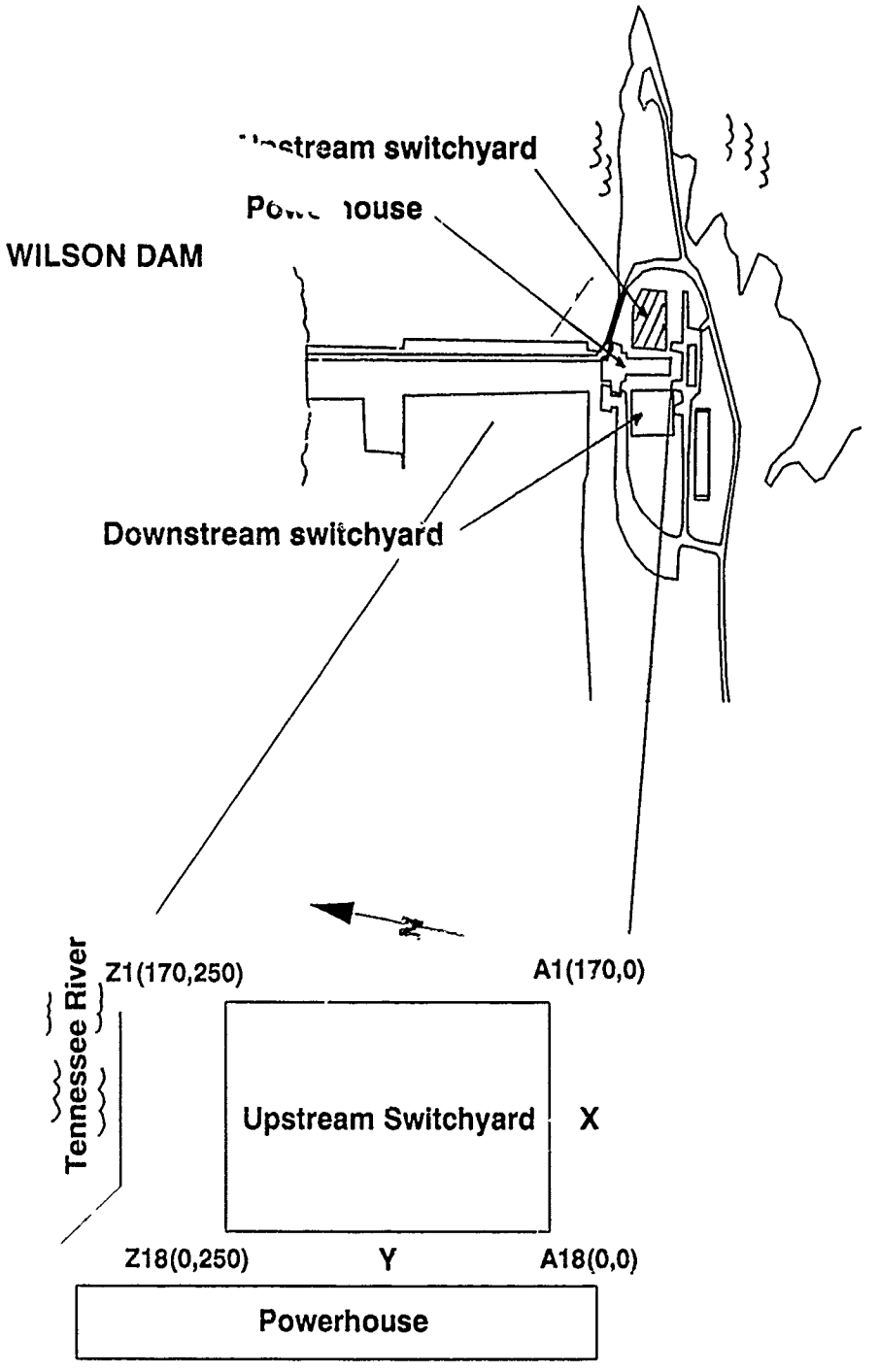



Figure 2. Location and general layout of survey grid

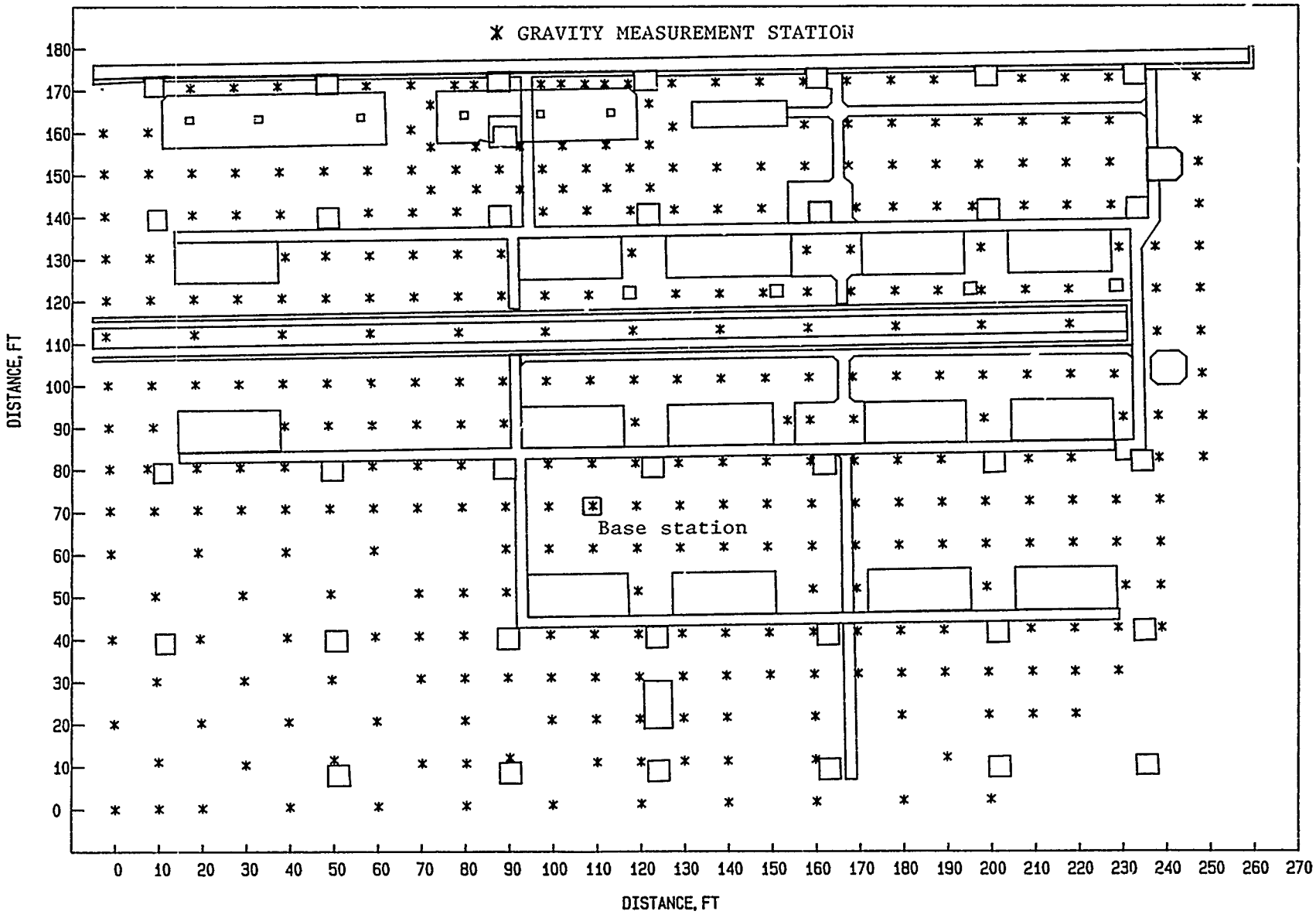



Figure 3. Gravity measurement stations for upstream switchyard survey

Figure 4. Views of upstream switchyard survey grid

7. Details of microgravity survey field procedures are given in Butler (1980) and Butler and Yule (1984) and will only be briefly summarized here. The survey was conducted in "zigzag" segments or loops called programs. A program consists typically of 6 to 10 gravity station measurements between two successive occupations of the base station. Each program was completed in 30 to 45 min. Base station reoccupations are used to correct the survey data for time-varying gravity values due to earth tides and instrument drift. A concave gravity meter baseplate was installed at the base station and left in place during the entire survey. A separate baseplate was used for all other masurements. Each program typically includes one or more stations that were occupied during a previous program. During the upstream microgravity survey 33 percent of the stations were reoccupied (two or more measurements). Comparison of the repeat values, after correction for the factors described in the following section, allowed the quality and accuracy of the data to be monitored during the course of the survey. The data acquisition required 5 days.

## Data Corrections

8. Required corrections to gravity data are thoroughly discussed in Butler (1980). Briefly, the corrections are necessary due to time variations of gravity, latitude and elevation differences between stations, and the effects of topographic features. If all the corrections are properly applied, variations in gravity values, on a corrected gravity contour map for example, will be due solely to variations in subsurface conditions beneath the survey area.

### Meter factor

9. The meter factor for LaCoste and Romberg Model D-130 gravimeter used for the survey is 1.08008. Multiplying each gravity measurement by the meter factor converts the value from meter units to gravity units, mGal, where 1 Gal = 1 $cm/s^2$; 1 mGal = $10^{-3}$ Gal. Strictly speaking, the meter factor multiplication is not a correction, but it is a necessary step in the data processing sequence.

### Correction for time variation

10. Gravity variations with time for the entire site is assumed to be the same as at the base station. All gravity measurements in a program are corrected for time variations by linear interpolation using the base station

values at the beginning and end of the program. The quality and consistency of the base station time variations are determined by comparison to theoretical and measured earth tide variations for the site. Theoretical earth tide variation was computed in advance for the period of the field work. During the field work, a measured earth tide was obtained by connecting the gravity meter to a chart recorder, securing the gravity meter in a locked shed on site, and recording the earth tide each night.

Latitude correction

11. The latitude correction compensates for the normal variation in gravity over the Earth in a north-south direction. A reference latitude of 34.5 deg is used for the site. The correction that is then applied to the data is 0.23 μgal/ft north-south distance from the base station, where the correction is subtracted if a station is north of the base station and added if a station is south of the base station.

Free-air correction

12. The free-air correction accounts for the normal variation of gravity with elevation, and for small-scale surveys the correction is made relative to the elevation of the base station. The correction is given by $94.04 \times h'$ μgal , for $h'$ in feet, where $h'$ is the elevation difference of a station relative to an elevation datum, which is chosen to be the base station elevation. If a station is higher in elevation than the datum, the correction is added, and subtracted if lower.

Bouguer correction

13. The Bouguer correction accounts for the fact that there are differing masses of material beneath stations due solely to elevation differences. The correction is calculated using $12.77 \times D \times h'$ μgal where $D$ is the bulk density of the near surface materials in grams per cubic centimetres and $h'$ is the elevation difference in feet between the gravity station and a reference datum. For this survey, a bulk density of 1.8 g/cm$^3$ is used, and the elevation of the base station is chosen again as the datum elevation. If a station elevation is above the datum, then this correction is subtracted and added if lower.

Terrain correction

14. Terrain correction compensates station gravity values for the attraction of nearby topographic variations and other terrain features. Within the upstream switchyard gravity grid area, the only terrain corrections that must be considered are for the transfer track trench and the aboveground

switchyard structures. During the previous gravity survey of the downstream switchyard, careful consideration was given to the terrain effects of the switchyard structures. Gravity measurements were made around one of the transformers in an effort to detect its gravity effect, gravity anomalies were calculated for a simple model of a transformer, and an overlay of the "non-terrain corrected" gravity anomaly map and a switchyard structure location map was examined for correlations. These efforts indicated that the effect of a transformer on gravity measurements is less than 5 $\mu$Gal for distances greater than 10 ft from the base and that the net effect of the dense assemblage of structures must be approximately constant over the interior of the survey grid, since there is no correlation between structure locations and gravity anomalies.

15. Outside the survey area, there are significant topographic variations that cannot be ignored. There are large drop-offs on the north and east boundaries of the survey area. As demonstrated in the previous work for the downstream switchyard, this type topographic variation can be treated as a component of the local regional field variation and corrected in a regional/residual field separation step (Butler 1980). The local regional field can be determined by row and column data averaging, polynomial surface fitting, or by modeling (Butler and Yule 1984, Butler 1985). This procedure for the upstream switchyard survey is discussed in the next section. In the geophysical literature, the following terminology is used:

a. Bouguer gravity anomaly map--gravity data corrected for the factors in paragraphs 9-14 plus the terrain correction.

b. Residual gravity anomaly map--the "remainder" after a regional gravity map field component is removed (subtracted) from the Bouguer gravity data.

The procedure used here effectively accomplishes the terrain correction and regional field removal in a single step.

## Data Processing

16. Gravity data processing is computational intensive because of the many corrections made and unwanted influences that must be removed. Currently, with the advent of powerful field portable microcomputers, personal workstations, and software, these obstacles have been overcome allowing the microgravity method to be a feasible and important engineering geophysical tool. A software system has been under development at WES that has

facilitated the data processing for this study.* Processing of the raw or measured gravity data can be divided into two stages, field processing and office processing. A flowchart presenting the procedure for data correction and processing is presented in Figure 5.

Field processing

17. Because of the necessary high accuracy and precision of the gravity measurement at each station, stringent controls during the data collection phase are employed to ensure that a good data set is obtained. The field processing is composed of applying the normal corrections to the gravity readings, compiling a master grid of all the readings, and plotting these values on a grid map. This map is then inspected for agreement of repeat measurements and anomalous high or low readings. This procedure is instituted daily to allow modifications of the data collection programs to investigate inconsistencies in the data. The results of the field processing stage, collected data and the applied corrections, are presented in program segments in Appendix A.

Office processing

18. The office processing phase consists of final processing of the master grid and applying the terrain correction and site-regional residual removal. The end product of this step is called the residual gravity map. The residual gravity map is used for anomaly selection and interpretation. The first step in the office processing is to process the master grid developed in the field. This is done through an interactive on-screen procedure that allows moving through the grid stations, in which all data and their source programs and those of their neighbors are viewed. For each station, options exist to average, select, or correct the station values, out of which one value is then written to a final grid file, which reduces the data set to one gravity value for each measurement station. It is this data set that is used in subsequent data processing.

19. The next step involves removing the effects of the local regional gravity field component and surrounding terrain effects. There are several methods available to accomplish this task. A direct approach is to analytically calculate the mass effects of surrounding terrain and shallow

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* Donald E. Yule and Michael K. Sharp, 1989, "GRAVD: Gravity Data Collection and Analysis Software," Open File-Draft Report, "S Army Engineer Waterways Experiment Station, Vicksburg, MS.

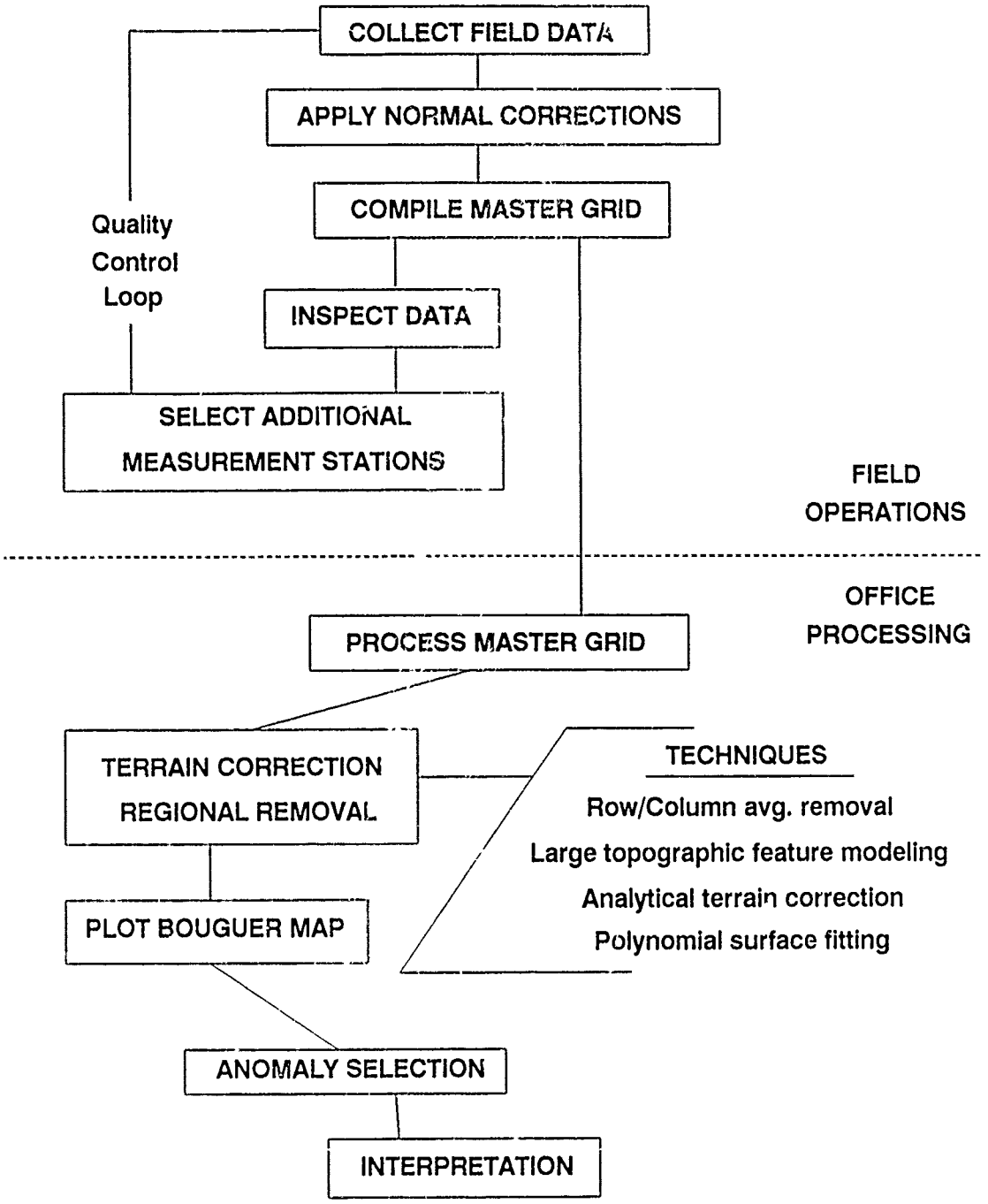


Figure 5. Gravity survey data correction and processing flowchart

geologic structure for each measurement station. While these methods are the most direct and rigorous, they require additional elevation data to define the surrounding terrain and much detail of the geologic structure below and around the survey area, which is difficult to obtain. Another approach, which relies only on the gravity data set, is possible if there is a heavily populated, uniformly distributed data set for the survey area. With sufficient data, "best-fitting" surfaces can be generated for the Bouguer gravity map. Correcting the gravity data by removing a "best-fitting" surface through the data accomplishes the local regional-residual separation and corrects for effects of terrain outside the survey area. The degree of the surface removed from the data determines the spatial wavelengths of the anomalies that will be removed and which will be passed. It is desirable to remove spatial wavelengths of the order and greater than the survey grid dimensions from the residual gravity map. Since the spatial wavelength is proportional to the depth of the causative subsurface feature, these procedures result in a residual map that contains gravity anomalies caused predominantly by subsurface features shallower than the mean survey area dimension in depth.

20. A first-order approach to define and remove the site regional and correct for nearby terrain is to use a row and column average removal technique. This a good first approach and works well if the regional has components that are broad and well defined in one direction, especially if the direction coincides with a grid axis. This approach was successfully implemented in the removal of the river bluff effect in the survey of the downstream switchyard. However, "corner effects," anomalous areas generated at the corners of the grid, were noticed as a result of this type regional separation for the upstream switchyard data set. This results from the coupling effect of removing two dependent parameters, row and then column averages derived from the same data set. The "corner-effects" are easily recognizable.

21. A more sophisticated and versatile approach is to model the gravity data with a surface defined by a polynomial function in place of row and column averages. Recent advances in efficient algorithms for determining polynomial surface fits to spatial data have made these computations rapid and accessible to microcomputers (Balch and Thompson 1989). This approach is advantageous in that it does not have the limitations discussed above. This method can account for more complicated regional field geometries with no preference to regional features aligned with the grid axes. Also, the amount

of filtering or detail of the measured gravity surface that will be removed can be easily adjusted by varying the degree of the polynomial equation that is used to fit the regional surface.

22. After the regional separation step is accomplished, the resulting residual gravity map is studied to identify anomalies. This is a judgmental phase in which relative high and low gravity areas are selected for subsequent investigation. It should be noted that the resulting anomalies, particularly their magnitudes, are a function of the selected regional surface fit. The regional surface defines the local reference level over the site from which depart relative high and low gravity areas. However, if the anomalies are detectable, the possible error caused by selecting an arbitrary reference surface is to incorrectly estimate the size and depth of the subsurface feature causing the anomaly; the xy(plan) location of the feature is relatively unaffected.

## Data Presentation

23. Data presentation is accomplished in two forms: two-dimensional (2-D) contour maps of the gravity data and three-dimensional (3-D) representations of the 2-D contour maps. The 3-D plots are important for obtaining a general perspective of the surface trends and also provide a more visually receptive display of the data. These plots also provide a view that is helpful in discerning anomalies from a complex regional gravity field. With the introduction of these 3-D plots, the viewing angle is important to orient the observer to enable comparisons with other views and plots. This is accomplished by a legend on each plot which consists of a small inset square box representing the grid. The legend displays the viewing angle with a line extending into the legend grid in the appropriate viewing direction. The 2-D contour plots are best suited for anomaly selection, location, and magnitude determination. A color mapping scheme has been employed when appropriate to enhance the data presentation. Red indicates areas of negative gravity anomalies with negative (-) values of less than -10 $\mu$gals. Black maps the area of data from -10 to 10 $\mu$gals, which is the area in which readings are close to the background value of 0 and judged to be insignificant. Green mapping represents positive anomaly gravity values greater than +10 $\mu$gals.

## Regional-Residual Field Separation

24. The gravity data were corrected for all normal corrections except the terrain correction, and the resulting data set is given in Appendix A. The master file gravity data set was derived from these data and is plotted in Figure 6. This figure is a stacked 2-D plot on a 3-D plot. The regional and terrain effects are evident as the broad surface trends, and the scattered, relatively small surface deviations are possible gravity anomalies caused by shallow, subsurface density anomalies. The purpose of the subsequent processing is to remove this broad trend, substantial decreases in the gravity to the north and west, and enhance and uncover localized deviations from this overall trend. Two separate methods were employed to accomplish this task, row/column average removal and polynomial surface fitting.

### Row/column average removal

25. Row/column average removal, as discussed previously, involves finding the grid row and column averages and then subtracting these quantities from each gravity station. This procedure is done in two steps. First, the longest grid dimension, column averages, is subtracted from each station value using the corresponding column average value. This resulting data set is then processed further by recalculating the row averages and then subtracting these averages from the column average adjusted gravity station value using the corresponding short axis, row average. The intermediate and final results are compared to make sure no major artifacts of processing are introduced. The processing steps and their effects are presented in Figure 7. The original trends in the data, row and column averages, are shown by curves A1 and A2. After the first step, removal of the column averages, curves B1 and B2, the new row and column averages, are plotted. Curve B1 shows that the north-south regional trend has been effectively removed, and curve B2 shows that the east/west trend has been reduced in magnitude, shifted downward on the plot, and smoothed. The curves C1 and C2 reflect the final results and are the result of subtracting the row averages shown in curve B2 from the adjusted gravity station data set, then recalculating the row and column averages, and plotting as curves C1 and C2, respectively. The regional trends have been greatly reduced in magnitude and smoothed. The final curves do show a small increase in scatter, which indicates the possible introduction of processing artifacts in the data. Overall, this technique has been successful in removing the local regional trends and is presented in Figure 8. The

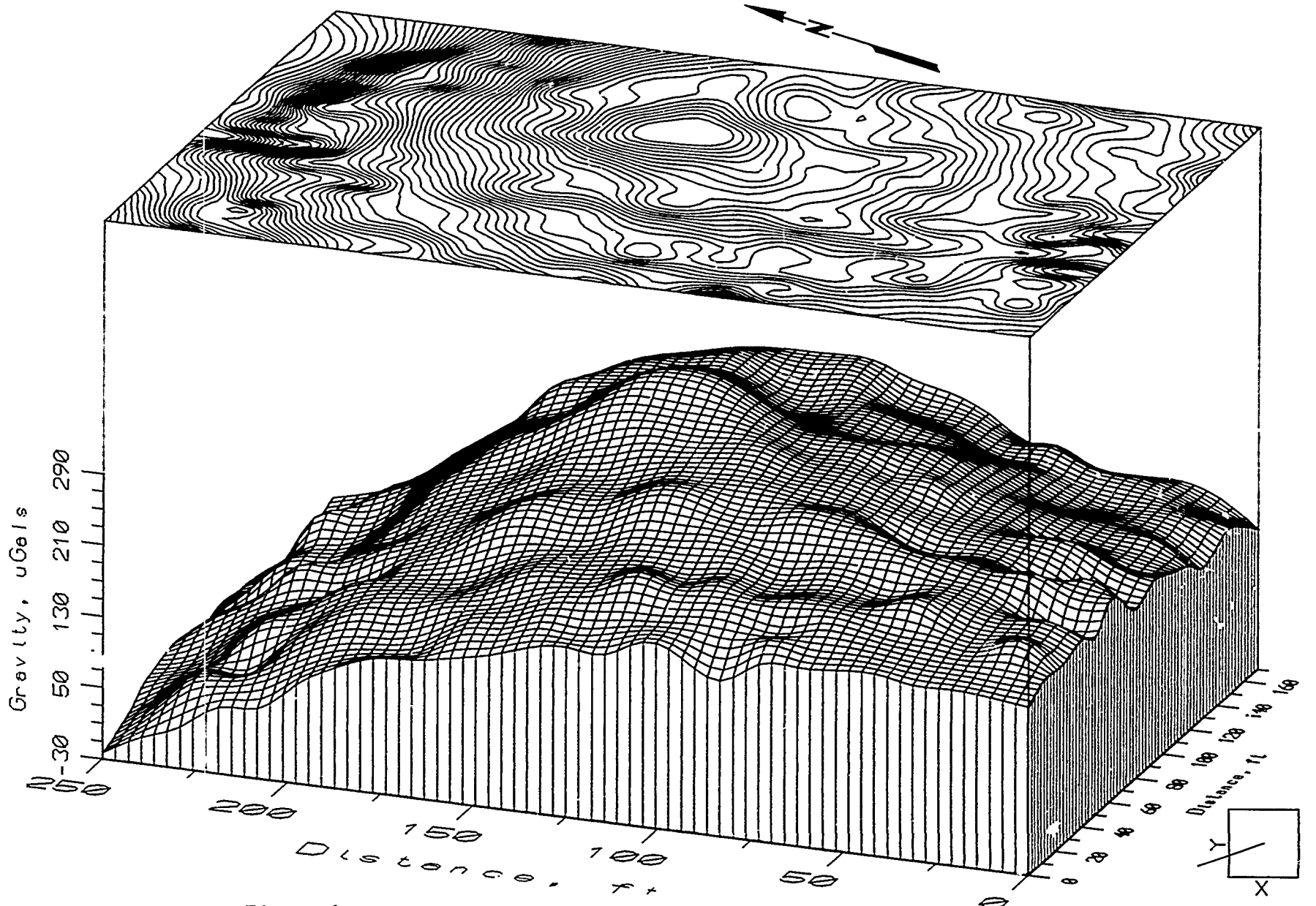


Figure 6. Bouguer gravity map of upstream switchyard

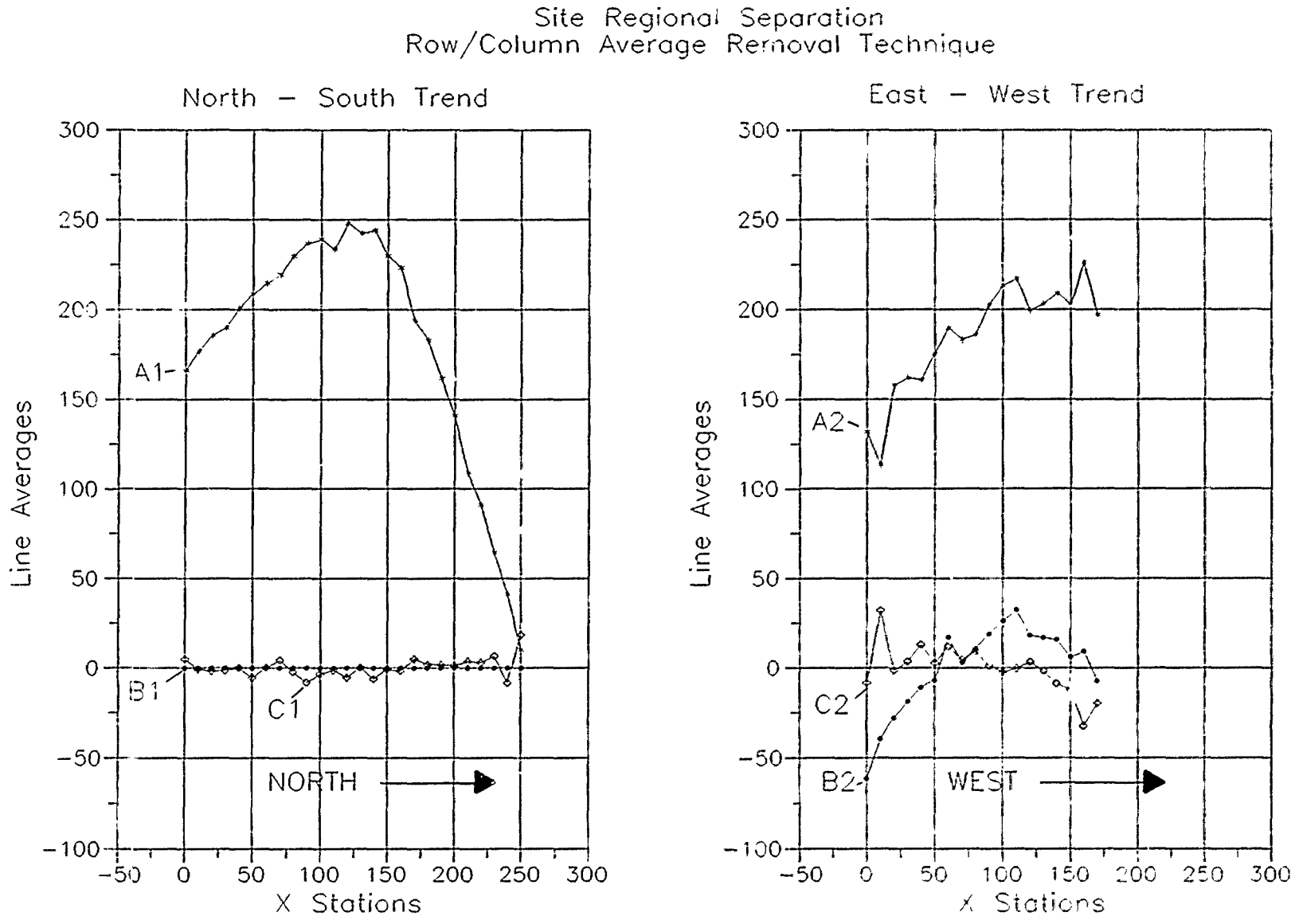


Figure 7. Site regional-residual separation using row/column average removal technique

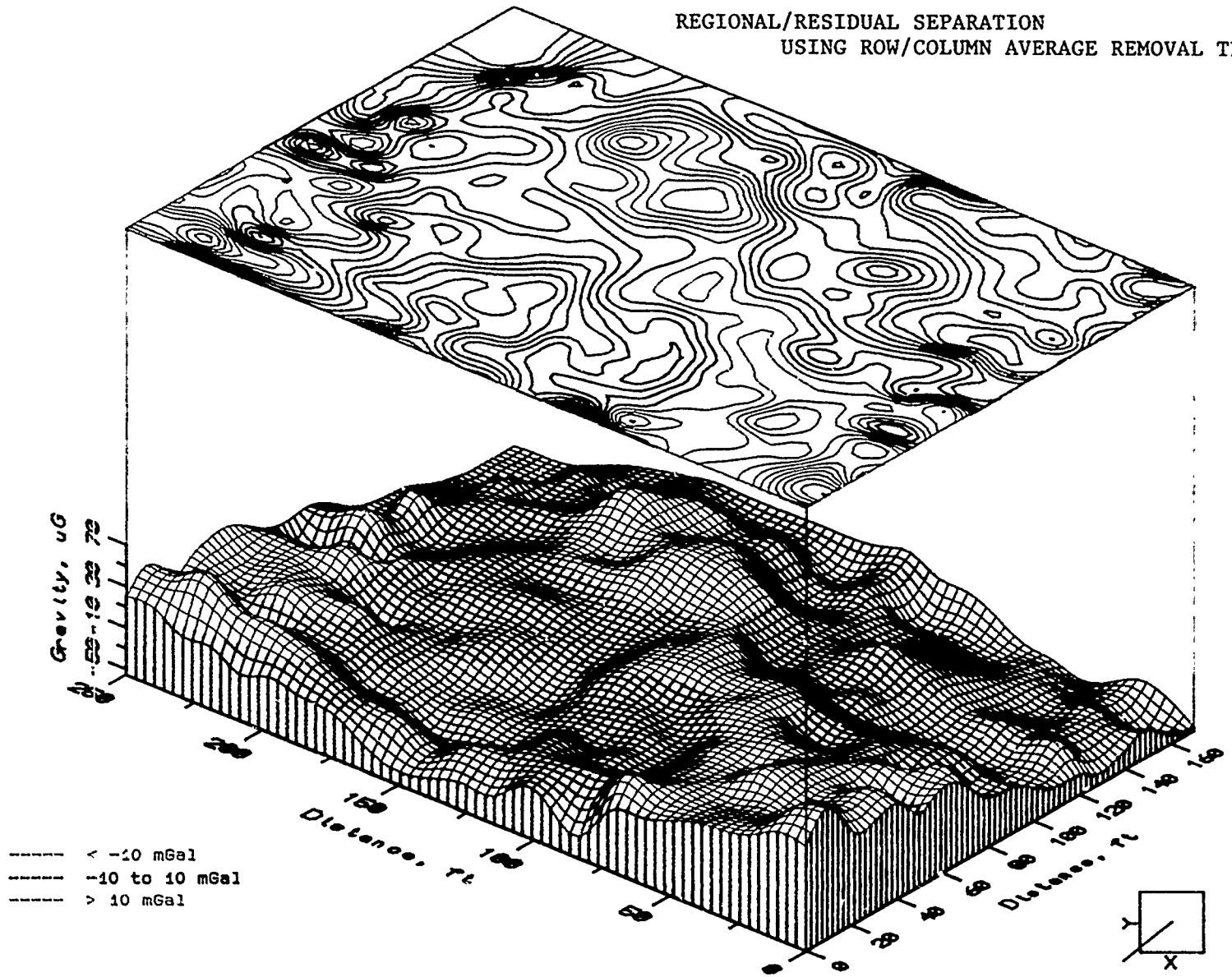


Figure 8. Residual gravity map using row/column average separation technique

resulting gravity plot shows a positive or gravity high ridge that runs southwest to northeast through the grid. There are gravity lows in the southeast and northeast corners which are probably amplified by "corner effects" that were discussed earlier.

Polynomial surface fitting

26. The second method employed to accomplish the local regional/residual field separation was polynomial surface fitting. In this method, a mathematical surface was generated to fit the nonterrain corrected Bouguer gravity data using a polynomial equation of various orders. Because of the nature of the regional surface as shown in the two views, AB and BA, in Figure 9, a third-order polynomial surface was initially postulated. However, fourth- and fifth-order surfaces were also generated to model the regional field. Their calculated degree of fit, 86.5, 90.3, and 90.9 percent, for a third-, fourth-, and fifth-order fit, respectively, which are measures of how well they approximate the original surface, lead to the conclusion that the fourth-order fit is most appropriate. The calculated surfaces to model the regional trend are shown in two views for each surface in Figure 10.

27. The fourth-order residual gravity anomaly map (obtained by subtracting the fourth-order "best-fit" surface (Figure 10) from the Bouguer anomaly map (Figure 9)) is shown in Figure 11. The resulting residual gravity map is similar to the map derived from row/column removal. The major differences are changes in the amplitudes and general appearance of some of the features. Also, the low gravity regions in the corners have been reduced in size. The high ridge running diagonally is still evident, but the broad low region along the west grid boundary has been removed. There are two strong negative regions on the east boundary. These results will be used in conjunction with the row/column average removal results for anomaly selection and assessment.

## Anomaly Selection and Assessment

28. Anomalous zones were identified based on whether they exceeded a threshold level (±10 μgals), possessed areal coherency, and were unexplained. Rankings of anomaly importance were based on the following considerations: location near critical structures or the known past sink hole and anomaly sense. A negative residual gravity anomaly could be caused by subsurface cavities whether air, water, or clay filled if it is within rock.

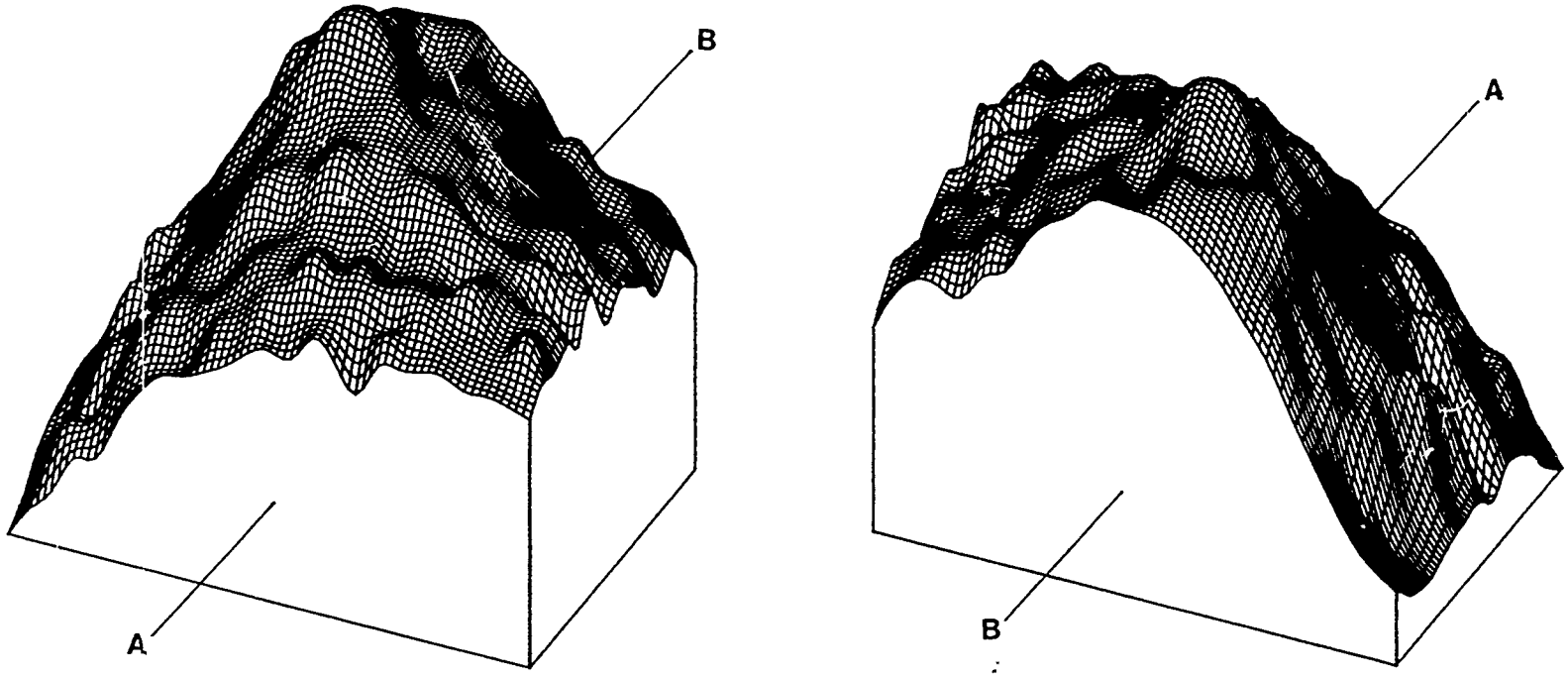


Figure 9. Presentation of site gravity surface before site regional-residual separation

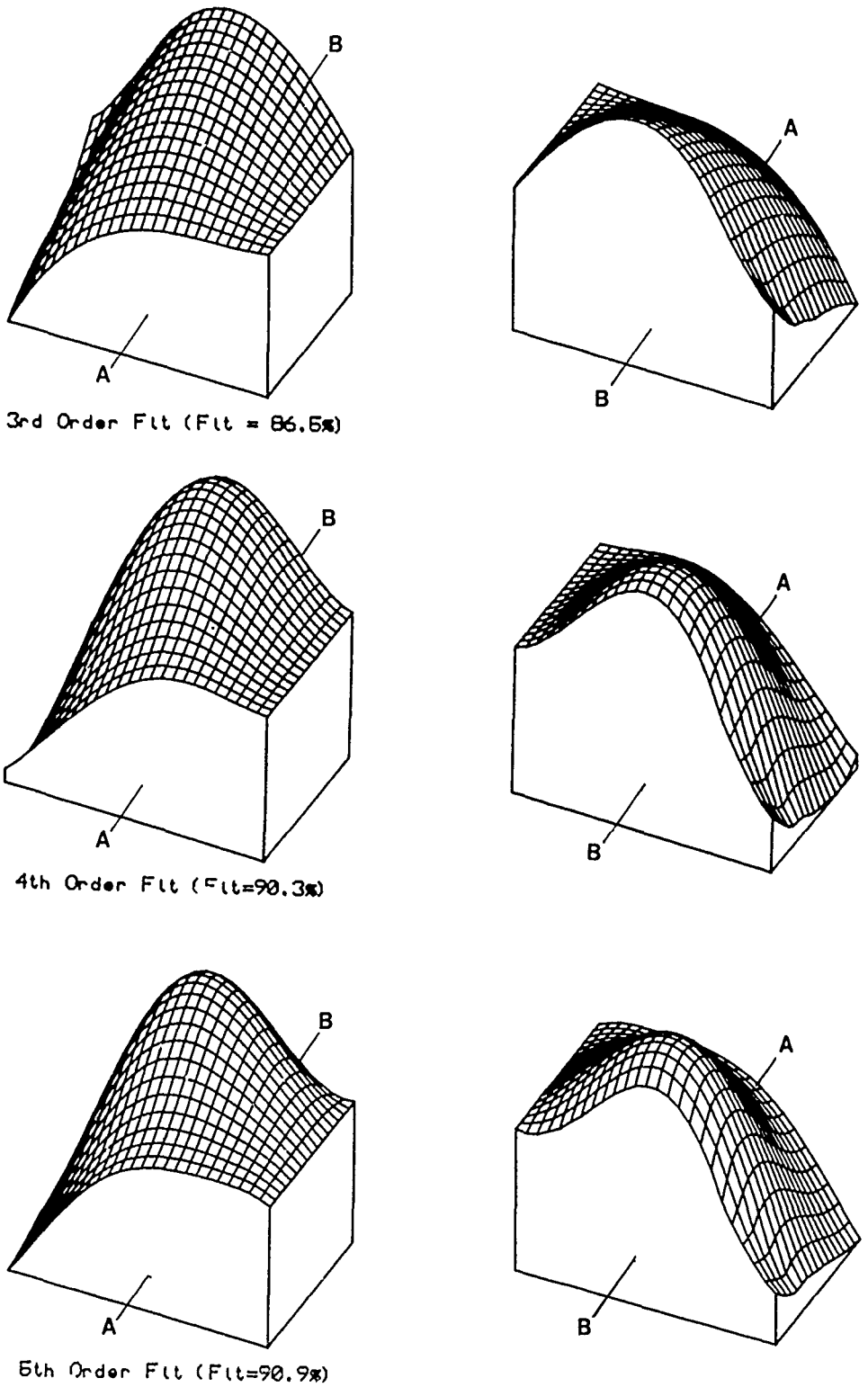


Figure 10. Polynomial surface fit models for the site regional field

Furthermore, low density areas relative to normal foundation conditions could indicate weak foundation conditions or incipient cavity formation. Therefore, negative anomalies are of critical interest for this survey, whereas verifying the positive anomalies are useful in determining the correctness of the data processing and help in explaining general subsurface conditions. Further emphasis is attached if both methods of regional/residual field separation show the same anomalous feature.

29. The residual gravity maps with anomalous zones delineated and suggested investigation positions annotated are presented in Figures 12 and 13 for the row/column average removal and polynomial surface fitting techniques, respectively. The anomaly areas have been prioritized into class "A"-highest and "B"-secondary. All class "A" are negative anomalies while class "B" includes one (B2) positive anomaly.

a. A1--This negative anomaly was selected because of its location near the old sinkhole location. This anomaly is evident from both separation techniques.

b. A2--This low region was picked because of its location near critical structures and area A1. Two exploratory locations were recommended because of its size and the two distinct negative expressions shown in Figure 12. This anomalous region was removed when processed using polynomial surface fitting and is seen in Figure 13 as within the background range of $0 \pm 10$ $\mu$gals.

c. A3--This region was chosen because of its significant areal extent and relatively high negative amplitude. Two exploratory locations were recommended based upon the row/column average separation method (Figure 12). This area is again strongly evident after the polynomial surface fitting technique (Figure 13). This latter processing suggests that the location of one of the investigative areas be moved slightly southwest to coincide with the plan location of the maximum anomaly.

d. A4--This low region appeared as the result of the polynomial surface fit regional separation (Figure 13). Because this area extends into the grid, it does not have the appearance of a "corner-effect" and therefore is ranked as a category "A."

e. B1--This negative region was given a lower ranking because of ts location near the corner of the switchyard and the difficulty of accurately removing the terrain effects for this type geometry. This effect is evident in the 160, 250 grid corner. Processing using a polynomial surface fit has reduced the size of this region leaving negative anomalies along the edges of the survey grid.

f. B2--This positive anomaly was selected to verify and explain the trend of high gravty values extending diagonally across the

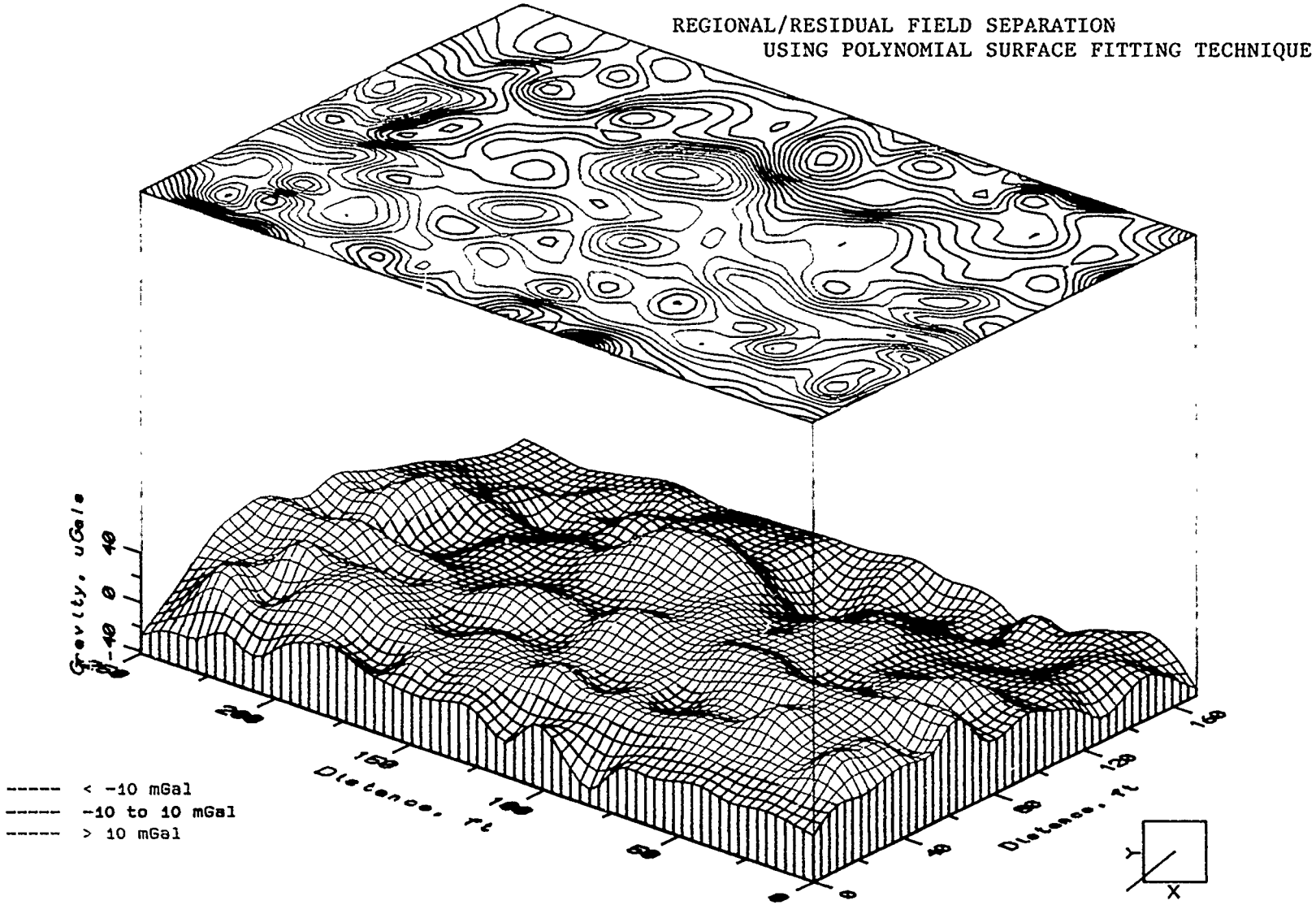


Figure 11. Residual gravity map using polynomial surface fitting separation technique

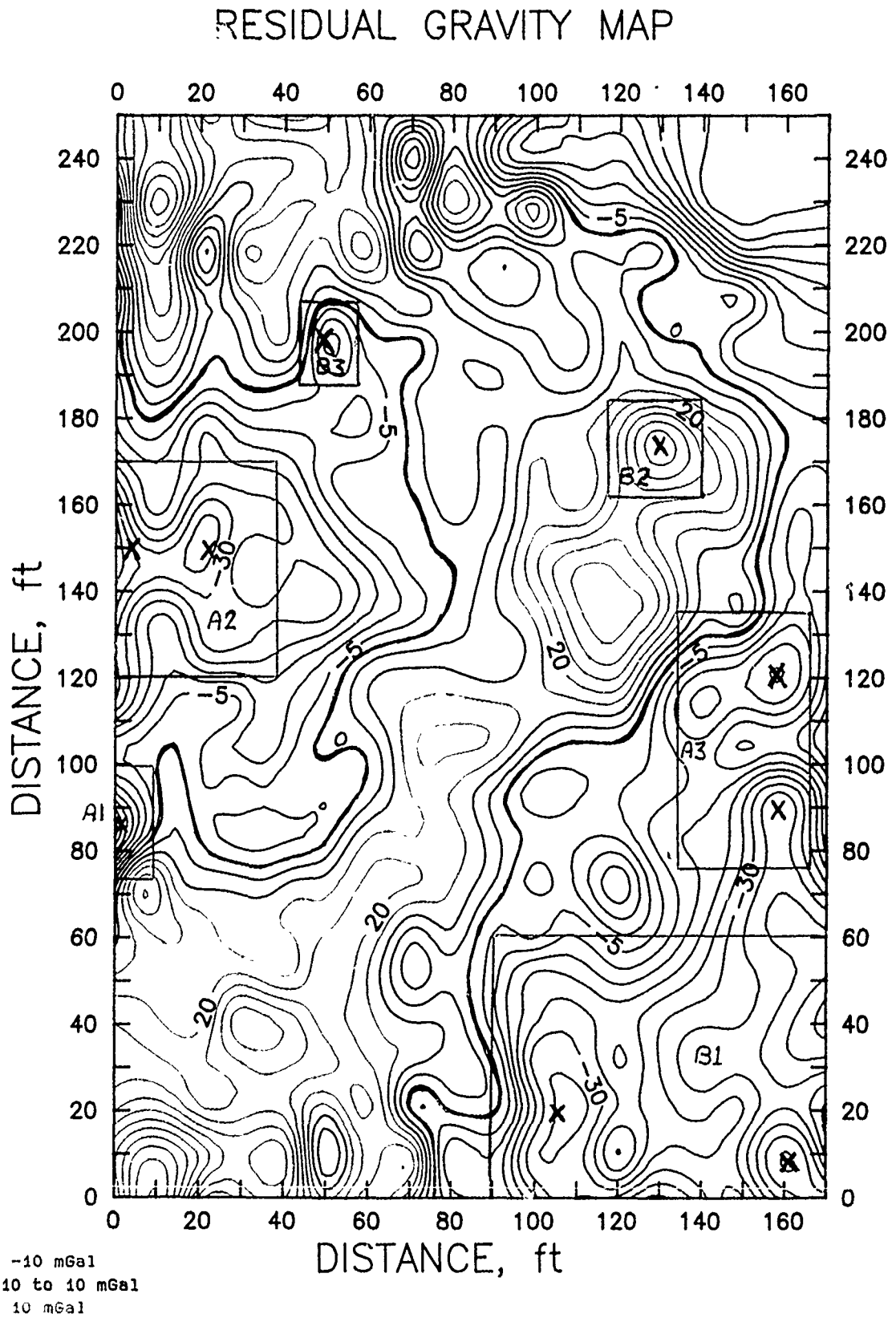


Figure 12. Anomaly selection in upstream switchyard. Regional-residual field separation using row/column average removal techniques

grid. However, the alternate processing technique places the location of a high to the southwest. This adjusted location is better because it appears on both residual maps.

g. B3-This anomaly was selected because it was negative but was given a low priority because of its small area and low magnitude as shown in Figure 12. This feature is again present in Figure 13, but its magnitude has been raised within the selected background range of 0 ± 10 μgals after the polynomial surface processing.

Several anomalous zones were not recommended for initial investigation because of their noncritical nature, such as the high positive region centered at (x,y:7,235), or because they can be explained, such as the negative anomaly at (x,y:70,240) caused by the cable pit beneath that area.

30. All of the closed contour anomalies identified above are caused by shallow density anomalies. It is difficult to compute depths for individual gravity anomalies since there is considerable superposition of anomalies. Depth for the feature producing the positive anomaly, B2 (x,y:110,140) is computed to be approximately 25 ft. The depth calculated for the negative anomaly, A2 (x,y:25,150) is approximately 27 ft. It is unlikely that any of the closed contour anomalies are caused by features deeper than 30 ft. Most anomalies, such as A1 and B3 , are caused by shallower features, likely less than 15 ft in depth. It is suggested, however, that exploratory borings be drilled to the top of rock, as was done in the downstream switchyard and as suggested by the model in Figure 1.

## Conclusion

31. A microgravity survey was conducted in the upstream switchyard of the powerplant during August 1989. The objective of the survey was the detection of subsurface cavities or other anomalous conditions that could threaten the integrity of the switchyard. The normal corrections were first applied to the gravity measurements as a field processing step in conjunction with monitoring data quality and inspection for inconsistencies. The data collection scheme was continually updated based on this information allowing the collection of a coherent and complete data set. The terrain correction and regional-residual field separation processing was accomplished jointly using two techniques, row/column average removal and polynomial surface fitting. Six anomalous areas (A1, A2 , A3, B1, B2, B3) were identified on the residual gravity contour map, and nine exploratory locations were selected

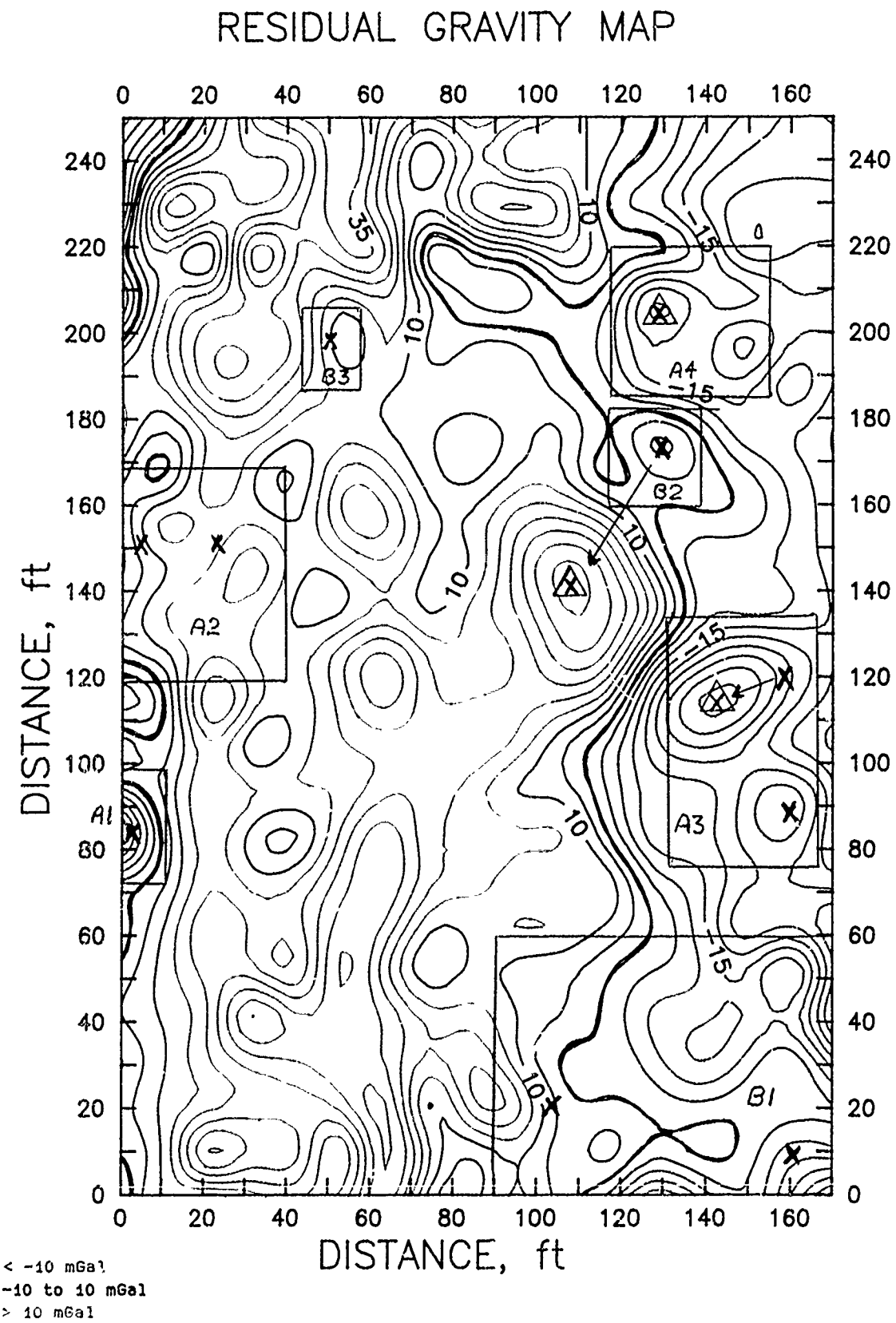


Figure 13. Anomaly selection in upstream switchyard. Regional-residual field separation using polynomial surface fitting techniques

based on the row/column average separation technique (Figure 12). Subsequent processing using the polynomial surface fit procedure added a seventh anomalous area with one additional exploratory location chosen, A4 (Figure 13). There was relatively good agreement between the two final processing techniques with two exploratory location adjustments recommended. The polynomial surface fit technique did not show the strong negative areas A2 and B1 , but it would be unconservative to discount their existence. While the selected, localized gravity anomalies are consistent with the existence of shallow cavities, other subsurface conditions can equally well explain the anomalies. Only direct subsurface investigation can confirm the presence of cavities. However, the absence of negative gravity anomalies in an area is a positive indicator of the absence of cavities. The recommended exploratory drilling program is a minimum plan, and if these negative anomalies are indeed cavities, then a closer inspection of the anomaly map should be undertaken to select additional exploratory locations.

## References


Balch, Stephen J., and Thompson, Garth T. 1989. "An Efficient Algorithm for Polynomial Surface Fitting," Computers and Geosciences, Vol 15, No.1, pp 107-119.

Butler, Dwain K. 1980. "Microgravimetric Techniques for Geotechnical Applications," Miscellaneous Paper GL-80-13, US Army Engineer Waterways Experiment Station, Vicksburg, MS.

_____. 1985. "Topographic Effects Considerations in Microgravity Surveying," in Proceedings of International Meeting on Potential Fields in Rugged Topography, IGL Bulletin No. 7, Institute de Geophysique, University de Rausanne, Switzerland, pp 34-40.

Butler, Dwain K., and Yule, Donald E. 1984. "Microgravity Survey of Wilson Dam Powerplant Switchyards, Florence, Alabama," Miscellaneous Paper GL-84-16, US Army Engineer Waterways Experiment Station, Vicksburg, MS.

Tennessee Valley Authority. 1989. "Wilson Project, Upstream Switchyard Subsurface Investigation," Chattanooga, TN.

Appendix A. Wilson Dam Upstream Switchyard

Field Data and Corrected Data

**********<<< DATA SUMMARY >>>**********

PROGRAM: wda1 FILE: wda1.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080189 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 9.4 | 4887 | 5278.4 |
| 2 | 90.00 | 30.00 | 549.24 | 9.5 | 4803 | 5212.3 |
| 3 | 70.00 | 60.00 | 549.29 | 9.5 | 4811 | 5219.0 |
| 4 | 110.00 | 40.00 | 549.17 | 9.6 | 4797 | 5203.7 |
| 5 | 100.00 | 70.00 | 549.30 | 9.6 | 4823 | 5236.9 |
| 6 | 50.00 | 0.00 | 549.32 | 9.7 | 4739 | 5167.2 |
| 7 | 100.00 | 50.00 | 549.26 | 9.7 | 4899 | 5326.3 |
| 8 | 70.00 | 60.00 | 549.12 | 9.8 | 4794 | 5203.4 |
| 9 | 130.00 | 80.00 | 549.21 | 9.8 | 4827 | 5243.4 |
| 10 | 100.00 | 110.00 | 549.21 | 9.9 | 4863 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4887.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4803.00 | -3.70 | 0.00 | 80.00 | 18.44 | 2.48 | 5212.25 |
| 4811.00 | -5.55 | 0.00 | 50.00 | 11.52 | 5.68 | 5219.03 |
| 4797.00 | -9.26 | 0.00 | 70.00 | 16.13 | -2.84 | 5203.69 |
| 4823.00 | -12.04 | 0.00 | 40.00 | 9.22 | 6.39 | 5236.87 |
| 4739.00 | -15.74 | 0.00 | 110.00 | 25.35 | 7.58 | 5167.17 |
| 4899.00 | -17.59 | 0.00 | 60.00 | 13.83 | 3.55 | 5326.28 |
| 4794.00 | -20.37 | 0.00 | 50.00 | 11.52 | -6.40 | 5203.40 |
| 4827.00 | -23.14 | 0.00 | 30.00 | 6.91 | -0.24 | 5243.37 |
| 4863.00 | -25.92 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wda2 FILE: wda2.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080189 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 9.9 | 4863 | 5278.4 |
| 2 | 70.00 | 30.00 | 549.36 | 9.9 | 4759 | 5200.3 |
| 3 | 50.00 | 40.00 | 549.30 | 10.0 | 4777 | 5217.0 |
| 4 | 50.00 | 0.00 | 549.32 | 10.1 | 4723 | 5173.0 |
| 5 | 30.00 | 20.00 | 549.27 | 10.1 | 4742 | 5189.4 |
| 6 | 50.00 | 70.00 | 549.44 | 10.2 | 4769 | 5224.3 |
| 7 | 20.00 | 40.00 | 549.40 | 10.3 | 4729 | 5191.4 |
| 8 | 110.00 | 40.00 | 549.17 | 10.3 | 4753 | 5205.1 |
| 9 | 100.00 | 110.00 | 549.21 | 10.5 | 4820 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4863.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4759.00 | -5.16 | 0.00 | 80.00 | 18.44 | 10.66 | 5200.28 |
| 4777.00 | -9.03 | 0.00 | 70.00 | 16.13 | 6.39 | 5217.02 |
| 4723.00 | -12.90 | 0.00 | 110.00 | 25.35 | 7.58 | 5172.98 |
| 4742.00 | -16.77 | 0.00 | 90.00 | 20.74 | 4.26 | 5189.44 |
| 4769.00 | -21.93 | 0.00 | 40.00 | 9.22 | 16.34 | 5224.32 |
| 4729.00 | -28.38 | 0.00 | 70.00 | 16.13 | 13.26 | 5191.40 |
| 4753.00 | -32.25 | 0.00 | 70.00 | 16.13 | -2.84 | 5205.08 |
| 4820.00 | -46.44 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wde3 FILE: wde3.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080189 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 10.5 | 4820 | 5278.4 |
| 2 | 70.00 | 110.00 | 549.23 | 10.6 | 4785 | 5245.9 |
| 3 | 20.00 | 80.00 | 549.37 | 10.6 | 4726 | 5200.7 |
| 4 | 30.00 | 100.00 | 549.17 | 10.6 | 4738 | 5198.0 |
| 5 | 50.00 | 40.00 | 549.30 | 10.7 | 4724 | 5208.3 |
| 6 | 70.00 | 40.00 | 549.42 | 10.7 | 4717 | 5210.9 |
| 7 | 90.00 | 30.00 | 549.24 | 10.8 | 4709 | 5193.7 |
| 8 | 100.00 | 0.00 | 549.24 | 10.8 | 4680 | 5171.3 |
| 9 | 130.00 | 60.00 | 549.08 | 10.9 | 4752 | 5226.3 |
| 10 | 150.00 | 60.00 | 549.07 | 10.9 | 4724 | 5197.7 |
| 11 | 100.00 | 110.00 | 549.21 | 11.0 | 4795 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4820.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4785.00 | -3.97 | 0.00 | 0.00 | 0.00 | 1.42 | 5245.94 |
| 4726.00 | -5.56 | 0.00 | 30.00 | 6.91 | 11.37 | 5200.66 |
| 4738.00 | -8.74 | 0.00 | 10.00 | 2.30 | -2.84 | 5197.98 |
| 4724.00 | -11.12 | 0.00 | 70.00 | 16.13 | 6.39 | 5208.31 |
| 4717.00 | -12.71 | 0.00 | 70.00 | 16.13 | 14.92 | 5210.86 |
| 4709.00 | -14.30 | 0.00 | 80.00 | 18.44 | 2.48 | 5193.68 |
| 4680.00 | -16.68 | 0.00 | 110.00 | 25.35 | 2.13 | 5171.30 |
| 4752.00 | -19.06 | 0.00 | 50.00 | 11.52 | -9.24 | 5226.25 |
| 4724.00 | -21.44 | 0.00 | 50.00 | 11.52 | -9.95 | 5197.68 |
| 4795.00 | -27.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wde4 FILE: wde4.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 090189 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 11.1 | 4797 | 5278.4 |
| 2 | 30.00 | 60.00 | 549.36 | 11.2 | 4707 | 5207.5 |
| 3 | 10.00 | 70.00 | 549.50 | 11.2 | 4673 | 5181.3 |
| 4 | 30.00 | 30.00 | 549.26 | 11.3 | 4696 | 5201.9 |
| 5 | 20.00 | 40.00 | 549.40 | 11.3 | 4676 | 5189.5 |
| 6 | 40.00 | 60.00 | 549.58 | 11.4 | 4681 | 5206.8 |
| 7 | 20.00 | 80.00 | 549.37 | 11.4 | 4701 | 5210.7 |
| 8 | 40.00 | 90.00 | 549.21 | 11.4 | 4718 | 5217.2 |
| 9 | 100.00 | 110.00 | 549.21 | 11.6 | 4774 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4797.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4707.00 | -4.44 | 0.00 | 50.00 | 11.52 | 10.42 | 5207.52 |
| 4673.00 | -7.10 | 0.00 | 40.00 | 9.22 | 20.60 | 5181.34 |
| 4696.00 | -10.65 | 0.00 | 80.00 | 18.44 | 3.55 | 5201.90 |
| 4676.00 | -12.42 | 0.00 | 70.00 | 16.13 | 13.26 | 5189.48 |
| 4681.00 | -15.97 | 0.00 | 50.00 | 11.52 | 26.29 | 5206.84 |
| 4701.00 | -17.74 | 0.00 | 30.00 | 6.91 | 11.37 | 5210.69 |
| 4718.00 | -19.52 | 0.00 | 20.00 | 4.61 | 0.00 | 5217.15 |
| 4774.00 | -24.84 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wda5 FILE: wda5.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080189 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UG |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 11.6 | 4774 | 527 |
| 2 | 70.00 | 80.00 | 549.31 | 11.6 | 4727 | 524 |
| 3 | 90.00 | 60.00 | 549.30 | 11.6 | 4703 | 522 |
| 4 | 40.00 | 60.00 | 549.58 | 11.7 | 4664 | 520 |
| 5 | 100.00 | 30.00 | 549.29 | 11.9 | 4651 | 518 |
| 6 | 110.00 | 20.00 | 549.03 | 11.9 | 4658 | 517 |
| 7 | 80.00 | 0.00 | 549.38 | 12.0 | 4612 | 515 |
| 8 | 20.00 | 80.00 | 549.37 | 12.1 | 4676 | 521 |
| 9 | 100.00 | 110.00 | 549.21 | 12.2 | 4753 | 527 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGAL |
|---|---|---|---|---|---|---|
| 4774.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.3 |
| 4727.00 | -1.74 | 0.00 | 30.00 | 6.91 | 7.10 | 5243.2 |
| 4703.00 | -3.49 | 0.00 | 50.00 | 11.52 | 6.39 | 5223.( |
| 4664.00 | -5.82 | 0.00 | 50.00 | 11.52 | 26.29 | 5203.1 |
| 4651.00 | -12.21 | 0.00 | 80.00 | 18.44 | 5.68 | 5181.8 |
| 4658.00 | -13.96 | 0.00 | 90.00 | 20.74 | -12.79 | 5174.9 |
| 4612.00 | -16.87 | 0.00 | 110.00 | 25.35 | 12.08 | 5157.( |
| 4676.00 | -19.19 | 0.00 | 30.00 | 6.91 | 11.37 | 5209.9 |
| 4753.00 | -22.68 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.3 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wda6 FILE: wda6.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080189 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 14.0 | 4780 | 5278.4 |
| 2 | 80.00 | 50.00 | 549.51 | 14.1 | 4688 | 5214.2 |
| 3 | 70.00 | 20.00 | 549.38 | 14.1 | 4661 | 5182.9 |
| 4 | 30.00 | 30.00 | 549.26 | 14.2 | 4678 | 5190.5 |
| 5 | 80.00 | 10.00 | 549.37 | 14.2 | 4639 | 5160.9 |
| 6 | 100.00 | 30.00 | 549.29 | 14.4 | 4633 | 5144.3 |
| 7 | 80.00 | 60.00 | 549.44 | 14.5 | 4679 | 5197.9 |
| 8 | 0.00 | 0.00 | 549.49 | 14.6 | 4626 | 5158.2 |
| 9 | 100.00 | 110.00 | 549.21 | 14.6 | 4779 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4780.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4688.00 | -0.11 | 0.00 | 60.00 | 13.83 | 21.31 | 5214.24 |
| 4661.00 | -0.22 | 0.00 | 90.00 | 20.74 | 12.08 | 5182.86 |
| 4678.00 | -0.30 | 0.00 | 80.00 | 18.44 | 3.55 | 5190.47 |
| 4639.00 | -0.38 | 0.00 | 100.00 | 23.05 | 11.37 | 5160.85 |
| 4633.00 | -0.65 | 0.00 | 80.00 | 18.44 | 5.68 | 5144.35 |
| 4679.00 | -0.78 | 0.00 | 50.00 | 11.52 | 16.34 | 5197.91 |
| 4626.00 | -0.92 | 0.00 | 110.00 | 25.35 | 19.89 | 5158.18 |
| 4779.00 | -1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wde7 FILE: wde7.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080189 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 14.6 | 4778 | 5278.4 |
| 2 | 90.00 | 100.00 | 549.16 | 14.7 | 4769 | 5265.9 |
| 3 | 70.00 | 70.00 | 549.41 | 14.7 | 4725 | 5240.8 |
| 4 | 80.00 | 50.00 | 549.51 | 14.8 | 4710 | 5234.8 |
| 5 | 40.00 | 50.00 | 549.30 | 14.8 | 4689 | 5195.6 |
| 6 | 10.00 | 10.00 | 549.63 | 14.9 | 4638 | 5170.7 |
| 7 | 110.00 | 20.00 | 549.03 | 14.9 | 4690 | 5179.9 |
| 8 | 100.00 | 80.00 | 549.37 | 14.9 | 4756 | 5259.3 |
| 9 | 130.00 | 40.00 | 549.17 | 15.0 | 4704 | 5195.8 |
| 10 | 130.00 | 20.00 | 549.00 | 15.0 | 4694 | 5176.1 |
| 11 | 100.00 | 30.00 | 549.29 | 15.1 | 4675 | 5171.6 |
| 12 | 100.00 | 110.00 | 549.21 | 15.1 | 4799 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4778.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4769.00 | 1.51 | 0.00 | 10.00 | 2.30 | -3.56 | 5265.87 |
| 4725.00 | 3.78 | 0.00 | 40.00 | 9.22 | 14.21 | 5240.75 |
| 4710.00 | 5.29 | 0.00 | 60.00 | 13.83 | 21.31 | 5234.76 |
| 4689.00 | 6.80 | 0.00 | 60.00 | 13.83 | 6.39 | 5195.64 |
| 4638.00 | 9.07 | 0.00 | 100.00 | 23.05 | 29.60 | 5170.72 |
| 4690.00 | 11.34 | 0.00 | 90.00 | 20.74 | -12.79 | 5179.92 |
| 4756.00 | 13.61 | 0.00 | 30.00 | 6.91 | 11.37 | 5259.26 |
| 4704.00 | 15.88 | 0.00 | 70.00 | 16.13 | -2.84 | 5195.84 |
| 4694.00 | 17.39 | 0.00 | 90.00 | 20.74 | -14.92 | 5176.06 |
| 4675.00 | 19.66 | 0.00 | 80.00 | 18.44 | 5.68 | 5171.57 |
| 4799.00 | 22.68 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wde8 FILE: wde8.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080189 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 15.1 | 4799 | 5278.4 |
| 2 | 50.00 | 50.00 | 549.25 | 15.2 | 4736 | 5227.0 |
| 3 | 20.00 | 10.00 | 549.59 | 15.3 | 4682 | 5201.8 |
| 4 | 10.00 | 10.00 | 549.63 | 15.3 | 4656 | 5176.6 |
| 5 | 40.00 | 80.00 | 549.47 | 15.4 | 4690 | 5186.0 |
| 6 | 70.00 | 50.00 | 549.33 | 15.4 | 4708 | 5202.4 |
| 7 | 70.00 | 20.00 | 549.38 | 15.5 | 4674 | 5176.2 |
| 8 | 70.00 | 0.00 | 549.29 | 15.5 | 4674 | 5174.4 |
| 9 | 130.00 | 0.00 | 548.97 | 15.6 | 4658 | 5134.4 |
| 10 | 100.00 | 110.00 | 549.21 | 15.7 | 4799 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4799.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4736.00 | 0.00 | 0.00 | 50.00 | 13.83 | 2.84 | 5226.98 |
| 4682.00 | 0.00 | 0.00 | 100.00 | 23.05 | 26.76 | 5201.79 |
| 4656.00 | 0.00 | 0.00 | 100.00 | 23.05 | 29.60 | 5176.55 |
| 4690.00 | 0.00 | 0.00 | 30.00 | 6.91 | 18.47 | 5186.01 |
| 4708.00 | 0.00 | 0.00 | 60.00 | 13.83 | 8.53 | 5202.42 |
| 4674.00 | 0.00 | 0.00 | 90.00 | 20.74 | 12.08 | 5176.16 |
| 4674.00 | 0.00 | 0.00 | 110.00 | 25.35 | 5.68 | 5174.38 |
| 4658.00 | 0.00 | 0.00 | 110.00 | 25.35 | -17.06 | 5134.36 |
| 4799.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wda9 FILE: wda9.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080189 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 15.7 | 4799 | 5278.4 |
| 2 | 50.00 | 80.00 | 549.50 | 15.7 | 4725 | 5223.5 |
| 3 | 80.00 | 40.00 | 549.38 | 15.8 | 4717 | 5213.9 |
| 4 | 40.00 | 80.00 | 549.47 | 15.8 | 4736 | 5228.4 |
| 5 | 20.00 | 50.00 | 549.38 | 15.9 | 4715 | 5204.6 |
| 6 | 0.00 | 30.00 | 549.32 | 15.9 | 4689 | 5176.1 |
| 7 | 90.00 | 100.00 | 549.16 | 16.0 | 4819 | 5284.9 |
| 8 | 80.00 | 80.00 | 549.31 | 16.0 | 4772 | 5247.0 |
| 9 | 100.00 | 60.00 | 549.35 | 16.1 | 4767 | 5246.6 |
| 10 | 70.00 | 100.00 | 549.31 | 16.1 | 4795 | 5263.2 |
| 11 | 100.00 | 110.00 | 549.21 | 16.1 | 4820 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4799.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4725.00 | 2.43 | 0.00 | 30.00 | 6.91 | 20.60 | 5223.51 |
| 4717.00 | 4.05 | 0.00 | 70.00 | 16.13 | 12.08 | 5213.95 |
| 4736.00 | 7.29 | 0.00 | 30.00 | 6.91 | 18.47 | 5228.40 |
| 4715.00 | 8.91 | 0.00 | 60.00 | 13.83 | 12.08 | 5204.62 |
| 4689.00 | 9.72 | 0.00 | 80.00 | 18.44 | 7.81 | 5176.08 |
| 4819.00 | 13.77 | 0.00 | 10.00 | 2.30 | -3.56 | 5284.93 |
| 4772.00 | 16.20 | 0.00 | 30.00 | 6.91 | 7.10 | 5247.01 |
| 4767.00 | 18.63 | 0.00 | 50.00 | 11.52 | 9.94 | 5246.63 |
| 4795.00 | 20.25 | 0.00 | 10.00 | 2.30 | 7.10 | 5263.19 |
| 4820.00 | 22.68 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wda10 FILE: wda10.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080189 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 16.2 | 4820 | 5278.4 |
| 2 | 100.00 | 40.00 | 549.35 | 16.3 | 4731 | 5206.9 |
| 3 | 90.00 | 0.00 | 549.13 | 16.3 | 4701 | 5167.3 |
| 4 | 70.00 | 0.00 | 549.20 | 16.4 | 4711 | 5188.8 |
| 5 | 30.00 | 0.00 | 549.42 | 16.4 | 4689 | 5173.8 |
| 6 | 0.00 | 40.00 | 549.28 | 16.5 | 4708 | 5174.4 |
| 7 | 0.00 | 30.00 | 549.32 | 16.5 | 4689 | 5158.3 |
| 8 | 40.00 | 70.00 | 549.58 | 16.5 | 4734 | 5215.5 |
| 9 | 20.00 | 60.00 | 549.46 | 16.6 | 4734 | 5208.0 |
| 10 | 100.00 | 110.00 | 549.21 | 16.8 | 4828 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4820.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4731.00 | 1.44 | 0.00 | 70.00 | 16.13 | 9.94 | 5206.86 |
| 4701.00 | 2.16 | 0.00 | 110.00 | 25.35 | -5.69 | 5167.33 |
| 4711.00 | 2.88 | 0.00 | 110.00 | 25.35 | 5.68 | 5188.78 |
| 4689.00 | 3.36 | 0.00 | 110.00 | 25.35 | 14.92 | 5173.77 |
| 4708.00 | 4.08 | 0.00 | 70.00 | 16.13 | 4.97 | 5174.41 |
| 4689.00 | 4.80 | 0.00 | 80.00 | 18.44 | 7.81 | 5158.31 |
| 4734.00 | 5.52 | 0.00 | 40.00 | 9.22 | 26.29 | 5215.45 |
| 4734.00 | 6.72 | 0.00 | 50.00 | 11.52 | 17.76 | 5208.03 |
| 4828.00 | 8.64 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wda11 FILE: wda11.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080189 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 16.8 | 4828 | 5278.4 |
| 2 | 70.00 | 10.00 | 549.35 | 16.8 | 4733 | 5205.5 |
| 3 | 40.00 | 0.00 | 549.51 | 16.9 | 4709 | 5191.1 |
| 4 | 80.00 | 80.00 | 549.31 | 16.9 | [illegible] | 5257.8 |
| 5 | 50.00 | 60.00 | 549.48 | 17.0 | 4756 | 5219.4 |
| 6 | 30.00 | 40.00 | 549.15 | 17.0 | 4778 | 5222.2 |
| 7 | 90.00 | 0.00 | 549.13 | 17.0 | 4738 | 5184.6 |
| 8 | 90.00 | 20.00 | 549.22 | 17.1 | 4762 | 5209.5 |
| 9 | 60.00 | 0.00 | 547.23 | 17.1 | 4835 | 5202.7 |
| 10 | 60.00 | 40.00 | 547.16 | 17.1 | 4919 | 5223.1 |
| 11 | 100.00 | 110.00 | 549.21 | 17.2 | 4853 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GR | G(UGALS) |
|---|---|---|---|---|---|---|
| 4828.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4733.00 | 5.24 | 0.00 | 100.00 | 23.05 | 9.96 | 5205.50 |
| 4709.00 | 5.40 | 0.00 | 110.00 | 25.35 | 21.31 | 5191.09 |
| 4804.00 | 8.64 | 0.00 | 30.00 | 6.91 | 7.10 | 5257.81 |
| 4756.00 | 11.88 | 0.00 | 50.00 | 11.52 | 19.18 | 5219.41 |
| 4778.00 | 14.04 | 0.00 | 70.00 | 16.13 | -4.26 | 5222.18 |
| 4738.00 | 16.20 | 0.00 | 110.00 | 25.35 | -5.69 | 5184.61 |
| 4762.00 | 18.36 | 0.00 | 90.00 | 20.74 | 0.47 | 5209.92 |
| 4835.00 | 21.60 | 0.00 | 110.00 | 25.35 | -140.93 | 5202.74 |
| 4919.00 | 23.76 | 0.00 | 70.00 | 16.13 | -145.90 | 5223.11 |
| 4853.00 | 27.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wda12 FILE: wda12.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080189 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 17.2 | 4852 | 5278.4 |
| 2 | 40.00 | 40.00 | 549.41 | 17.3 | 4767 | 5214.4 |
| 3 | 60.00 | 20.00 | 547.21 | 17.3 | 4918 | 5223.1 |
| 4 | 20.00 | 50.00 | 549.30 | 17.4 | 4760 | 5190.4 |
| 5 | 20.00 | 20.00 | 549.44 | 17.4 | 4745 | 5188.6 |
| 6 | 10.00 | 0.00 | 549.47 | 17.4 | 4728 | 5173.6 |
| 7 | 50.00 | 60.00 | 549.48 | 17.5 | 4796 | 5230.2 |
| 8 | 60.00 | 80.00 | 547.22 | 17.5 | 4978 | 5258.9 |
| 9 | 60.00 | 60.00 | 547.16 | 17.5 | 4963 | 5240.6 |
| 10 | 90.00 | 80.00 | 549.24 | 17.6 | 4847 | 5255.1 |
| 11 | 70.00 | 250.00 | 549.28 | 17.7 | 4662 | 5014.0 |
| 12 | 100.00 | 110.00 | 549.21 | 17.7 | 4886 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GR | G(UGALS) |
|---|---|---|---|---|---|---|
| 4852.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4767.00 | 2.45 | 0.00 | 70.00 | 16.13 | 14.21 | 5214.44 |
| 4918.00 | 4.90 | 0.00 | 90.00 | 20.74 | -142.34 | 5223.14 |
| 4760.00 | 8.57 | 0.00 | 60.00 | 13.83 | 6.16 | 5190.40 |
| 4745.00 | 11.02 | 0.00 | 90.00 | 20.74 | 16.11 | 5188.62 |
| 4728.00 | 14.69 | 0.00 | 110.00 | 25.35 | 18.47 | 5173.56 |
| 4796.00 | 18.36 | 0.00 | 50.00 | 11.52 | 19.18 | 5230.21 |
| 4978.00 | 20.81 | 0.00 | 30.00 | 6.91 | -141.64 | 5258.91 |
| 4963.00 | 23.26 | 0.00 | 50.00 | 11.52 | -145.90 | 5240.61 |
| 4847.00 | 26.93 | 0.00 | 30.00 | 6.91 | 2.13 | 5255.06 |
| 4662.00 | 31.83 | 0.00 | -140.00 | -32.27 | 4.97 | 5014.01 |
| 4886.00 | 36.72 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdb1 FILE: wdb1.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080289 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 8.0 | 4928 | 5278.4 |
| 2 | 50.00 | 110.00 | 549.24 | 8.1 | 4867 | 5217.9 |
| 3 | 80.00 | 70.00 | 549.38 | 8.1 | 4863 | 5234.7 |
| 4 | 60.00 | 60.00 | 547.16 | 8.2 | 5015 | 5245.1 |
| 5 | 60.00 | 100.00 | 547.24 | 8.2 | 5017 | 5245.7 |
| 6 | 40.00 | 0.00 | 549.51 | 8.3 | 4775 | 5171.6 |
| 7 | 50.00 | 20.00 | 549.22 | 8.4 | 4811 | 5187.2 |
| 8 | 70.00 | 90.00 | 549.16 | 8.4 | 4884 | 5248.2 |
| 9 | 80.00 | 90.00 | 549.31 | 8.5 | 4875 | 5251.1 |
| 10 | 100.00 | 110.00 | 549.21 | 8.6 | 4908 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4928.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4867.00 | -3.27 | 0.00 | 0.00 | 0.00 | 2.13 | 5217.87 |
| 4863.00 | -5.24 | 0.00 | 40.00 | 9.22 | 12.08 | 5234.68 |
| 5015.00 | -7.20 | 0.00 | 50.00 | 11.52 | -145.90 | 5245.14 |
| 5017.00 | -9.16 | 0.00 | 10.00 | 2.30 | -140.21 | 5245.73 |
| 4775.00 | -11.78 | 0.00 | 110.00 | 25.35 | 21.31 | 5171.55 |
| 4811.00 | -13.75 | 0.00 | 90.00 | 20.74 | 0.71 | 5187.18 |
| 4884.00 | -16.36 | 0.00 | 20.00 | 4.61 | -3.56 | 5248.25 |
| 4875.00 | -18.33 | 0.00 | 20.00 | 4.61 | 7.10 | 5251.15 |
| 4908.00 | -21.60 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdb2 FILE: wdb2.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080289 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 8.6 | 4908 | 5278.4 |
| 2 | 50.00 | 90.00 | 549.26 | 8.6 | 4847 | 5222.1 |
| 3 | 30.00 | 80.00 | 549.18 | 8.6 | 4827 | 5198.6 |
| 4 | 20.00 | 20.00 | 549.44 | 8.8 | 4777 | 5179.6 |
| 5 | 20.00 | 30.00 | 549.47 | 8.8 | 4784 | 5188.5 |
| 6 | 50.00 | 10.00 | 549.41 | 8.9 | 4761 | 5165.7 |
| 7 | 90.00 | 40.00 | 549.24 | 8.9 | 4810 | 5201.6 |
| 8 | 50.00 | 110.00 | 549.24 | 9.0 | 4845 | 5225.3 |
| 9 | 20.00 | 90.00 | 549.32 | 9.1 | 4807 | 5196.5 |
| 10 | 100.00 | 110.00 | 549.21 | 9.1 | 4892 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4908.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4847.00 | -1.48 | 0.00 | 20.00 | 4.61 | 3.55 | 5222.11 |
| 4827.00 | -2.96 | 0.00 | 30.00 | 6.91 | -2.13 | 5198.61 |
| 4777.00 | -5.92 | 0.00 | 90.00 | 20.74 | 16.11 | 5179.64 |
| 4784.00 | -7.41 | 0.00 | 80.00 | 18.44 | 18.24 | 5188.50 |
| 4761.00 | -8.89 | 0.00 | 100.00 | 23.05 | 14.21 | 5165.72 |
| 4810.00 | -10.86 | 0.00 | 70.00 | 16.13 | 2.13 | 5201.63 |
| 4845.00 | -12.84 | 0.00 | 0.00 | 0.00 | 2.13 | 5225.27 |
| 4807.00 | -14.81 | 0.00 | 20.00 | 4.61 | 7.81 | 5196.50 |
| 4892.00 | -17.28 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdb3 FILE: wdb3.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080289 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 9.1 | 4892 | 5278.4 |
| 2 | 110.00 | 60.00 | 549.26 | 9.2 | 4830 | 5227.1 |
| 3 | 100.00 | 10.00 | 549.30 | 9.2 | 4754 | 5159.7 |
| 4 | 60.00 | 100.00 | 547.24 | 9.3 | 4975 | 5232.2 |
| 5 | 30.00 | 70.00 | 549.22 | 9.3 | 4814 | 5206.8 |
| 6 | 50.00 | 90.00 | 549.26 | 9.4 | 4818 | 5210.5 |
| 7 | 20.00 | 70.00 | 549.36 | 9.4 | 4795 | 5197.8 |
| 8 | 0.00 | 60.00 | 549.28 | 9.4 | 4755 | 5152.7 |
| 9 | 20.00 | 0.00 | 549.47 | 9.5 | 4745 | 5170.1 |
| 10 | 130.00 | 70.00 | 549.32 | 9.6 | 4817 | 5222.6 |
| 11 | 100.00 | 110.00 | 549.21 | 9.7 | 4883 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4892.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4830.00 | -0.61 | 0.00 | 50.00 | 11.52 | 3.55 | 5227.07 |
| 4754.00 | -1.22 | 0.00 | 100.00 | 23.05 | 6.15 | 5159.72 |
| 4975.00 | -2.13 | 0.00 | 10.00 | 2.30 | -140.21 | 5232.21 |
| 4814.00 | -3.04 | 0.00 | 40.00 | 9.22 | 0.47 | 5206.83 |
| 4818.00 | -3.95 | 0.00 | 20.00 | 4.61 | 3.55 | 5210.54 |
| 4795.00 | -4.56 | 0.00 | 40.00 | 9.22 | 10.42 | 5197.78 |
| 4755.00 | -5.77 | 0.00 | 50.00 | 11.52 | 4.97 | 5152.65 |
| 4745.00 | -6.68 | 0.00 | 110.00 | 25.35 | 18.47 | 5170.09 |
| 4817.00 | -8.20 | 0.00 | 40.00 | 9.22 | 7.81 | 5222.58 |
| 4883.00 | -9.72 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdb4 FILE: wdb4.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080289 |

---------- -< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 9.7 | 4883 | 5278.4 |
| 2 | 100.00 | 90.00 | 549.16 | 9.7 | 4857 | 5255.5 |
| 3 | 30.00 | 110.00 | 549.23 | 9.8 | 4792 | 5191.2 |
| 4 | 90.00 | 40.00 | 549.30 | 9.9 | 4784 | 5210.6 |
| 5 | 100.00 | 20.00 | 549.34 | 9.9 | 4756 | 5192.0 |
| 6 | 110.00 | 0.00 | 548.96 | 9.9 | 4747 | 5162.7 |
| 7 | 110.00 | 60.00 | 549.26 | 10.0 | 4807 | 5239.1 |
| 8 | 120.00 | 70.00 | 549.26 | 10.1 | 4818 | 5254.2 |
| 9 | 100.00 | 110.00 | 549.21 | 10.1 | 4847 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4883.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4857.00 | -4.17 | 0.00 | 20.00 | 4.61 | -3.56 | 5255.49 |
| 4792.00 | -9.72 | 0.00 | 0.00 | 0.00 | 1.42 | 5191.20 |
| 4784.00 | -16.66 | 0.00 | 70.00 | 16.13 | 6.39 | 5210.61 |
| 4756.00 | -20.83 | 0.00 | 90.00 | 20.74 | 9.24 | 5191.99 |
| 4747.00 | -23.61 | 0.00 | 110.00 | 25.35 | -17.76 | 5162.66 |
| 4807.00 | -27.77 | 0.00 | 50.00 | 11.52 | 3.55 | 5239.11 |
| 4818.00 | -33.33 | 0.00 | 40.00 | 9.22 | 3.55 | 5254.25 |
| 4847.00 | -38.88 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdb5 FILE: wdb5.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080289 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 10.2 | 4846 | 5278.4 |
| 2 | 120.00 | 80.00 | 549.30 | 10.3 | 4805 | 5247.6 |
| 3 | 150.00 | 40.00 | 548.74 | 10.3 | 4776 | 5185.7 |
| 4 | 110.00 | 0.00 | 548.96 | 10.4 | 4712 | 5141.6 |
| 5 | 100.00 | 10.00 | 549.18 | 10.4 | 4726 | 5170.2 |
| 6 | 50.00 | 30.00 | 549.22 | 10.5 | 4768 | 5213.9 |
| 7 | 30.00 | 70.00 | 549.10 | 10.5 | 4793 | 5223.2 |
| 8 | 50.00 | 100.00 | 549.25 | 10.6 | 4802 | 5236.8 |
| 9 | 90.00 | 70.00 | 549.30 | 10.6 | 4797 | 5262.0 |
| 10 | 100.00 | 110.00 | 549.21 | 10.7 | 4845 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4846.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4805.00 | -0.24 | 0.00 | 30.00 | 6.91 | 6.39 | 5247.61 |
| 4776.00 | -0.34 | 0.00 | 70.00 | 16.13 | -33.51 | 5185.70 |
| 4712.00 | -0.44 | 0.00 | 110.00 | 25.35 | -17.76 | 5141.65 |
| 4726.00 | -0.51 | 0.00 | 100.00 | 23.05 | -2.13 | 5170.16 |
| 4768.00 | -0.64 | 0.00 | 80.00 | 18.44 | 0.71 | 5213.89 |
| 4793.00 | -0.71 | 0.00 | 40.00 | 9.22 | -7.82 | 5223.22 |
| 4802.00 | -0.81 | 0.00 | 10.00 | 2.30 | 2.84 | 5236.78 |
| 4797.00 | -0.95 | 0.00 | 40.00 | 9.22 | 6.39 | 5261.98 |
| 4845.00 | -1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdb6 FILE: wdb6.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080289 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 10.8 | 4844 | 5278.4 |
| 2 | 100.00 | 100.00 | 549.01 | 10.8 | 4837 | 5262.7 |
| 3 | 90.00 | 10.00 | 549.26 | 10.9 | 4717 | 5182.0 |
| 4 | 50.00 | 30.00 | 549.22 | 10.9 | 4737 | 5202.3 |
| 5 | 40.00 | 10.00 | 549.52 | 11.0 | 4701 | 5197.2 |
| 6 | 0.00 | 20.00 | 549.31 | 11.1 | 4682 | 5167.8 |
| 7 | 30.00 | 110.00 | 549.23 | 11.1 | 4731 | 5202.4 |
| 8 | 0.00 | 70.00 | 549.42 | 11.2 | 4674 | 5171.5 |
| 9 | 100.00 | 110.00 | 549.21 | 11.3 | 4780 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4844.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4837.00 | -4.07 | 0.00 | 10.00 | 2.30 | -14.45 | 5262.72 |
| 4717.00 | -14.23 | 0.00 | 100.00 | 23.05 | 3.55 | 5182.01 |
| 4737.00 | -20.33 | 0.00 | 80.00 | 18.44 | 0.71 | 5202.26 |
| 4701.00 | -28.46 | 0.00 | 100.00 | 23.05 | 21.79 | 5197.20 |
| 4682.00 | -36.60 | 0.00 | 90.00 | 20.74 | 7.10 | 5167.82 |
| 4731.00 | -44.73 | 0.00 | 0.00 | 0.00 | 1.42 | 5202.45 |
| 4674.00 | -52.86 | 0.00 | 40.00 | 9.22 | 14.68 | 5171.50 |
| 4780.00 | -69.13 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdb7 FILE: wdb7.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080289 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 11.3 | 4780 | 5278.4 |
| 2 | 140.00 | 80.00 | 549.51 | 11.4 | 4710 | 5237.2 |
| 3 | 150.00 | 0.00 | 548.53 | 11.4 | 4678 | 5157.7 |
| 4 | 90.00 | 10.00 | 549.26 | 11.5 | 4659 | 5190.9 |
| 5 | 170.00 | 20.00 | 548.19 | 11.5 | 4707 | 5170.7 |
| 6 | 170.00 | 60.00 | 548.55 | 11.6 | 4702 | 5185.8 |
| 7 | 90.00 | 70.00 | 549.30 | 11.6 | 4722 | 5264.6 |
| 8 | 150.00 | 20.00 | 548.62 | 11.6 | 4669 | 5176.8 |
| 9 | 110.00 | 110.00 | 549.43 | 11.7 | 4714 | 5270.3 |
| 10 | 100.00 | 110.00 | 549.21 | 11.8 | 4728 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4780.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4710.00 | -6.24 | 0.00 | 30.00 | 6.91 | 21.31 | 5237.22 |
| 4678.00 | -12.48 | 0.00 | 110.00 | 25.35 | -48.32 | 5157.70 |
| 4659.00 | -16.64 | 0.00 | 100.00 | 23.05 | 3.55 | 5190.90 |
| 4707.00 | -22.88 | 0.00 | 90.00 | 20.74 | -72.47 | 5170.66 |
| 4702.00 | -27.04 | 0.00 | 50.00 | 11.52 | -46.90 | 5185.77 |
| 4722.00 | -33.28 | 0.00 | 40.00 | 9.22 | 6.39 | 5264.60 |
| 4669.00 | -39.52 | 0.00 | 90.00 | 20.74 | -41.92 | 5176.81 |
| 4714.00 | -47.84 | 0.00 | 0.00 | 0.00 | 15.39 | 5270.30 |
| 4728.00 | -56.16 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdb8 FILE: wdb8.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080289 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 11.8 | 4728 | 5278.4 |
| 2 | 110.00 | 90.00 | 549.27 | 11.8 | 4707 | 5264.8 |
| 3 | 170.00 | 0.00 | 548.17 | 11.9 | 4632 | 5126.6 |
| 4 | 40.00 | 10.00 | 549.60 | 11.9 | 4613 | 5205.8 |
| 5 | 150.00 | 80.00 | 549.36 | 12.0 | 4664 | 5227.9 |
| 6 | 170.00 | 80.00 | 549.11 | 12.0 | 4687 | 5235.9 |
| 7 | 140.00 | 80.00 | 549.43 | 12.1 | 4701 | 5273.5 |
| 8 | 170.00 | 40.00 | 548.15 | 12.1 | 4713 | 5205.2 |
| 9 | 140.00 | 90.00 | 549.22 | 12.1 | 4694 | 5249.7 |
| 10 | 100.00 | 110.00 | 549.21 | 12.2 | 4725 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4728.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4707.00 | -0.25 | 0.00 | 20.00 | 4.61 | 4.26 | 5264.79 |
| 4632.00 | -0.50 | 0.00 | 110.00 | 25.35 | -73.90 | 5126.62 |
| 4613.00 | -0.87 | 0.00 | 100.00 | 23.05 | 27.71 | 5205.77 |
| 4664.00 | -1.37 | 0.00 | 30.00 | 6.91 | 10.42 | 5227.93 |
| 4687.00 | -1.62 | 0.00 | 30.00 | 6.91 | -6.75 | 5235.85 |
| 4701.00 | -1.99 | 0.00 | 30.00 | 6.91 | 15.40 | 5273.49 |
| 4713.00 | -2.49 | 0.00 | 70.00 | 16.13 | -75.55 | 5205.22 |
| 4694.00 | -2.74 | 0.00 | 20.00 | 4.61 | 0.71 | 5249.69 |
| 4725.00 | -3.24 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdb9 FILE: wdb9.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080289 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 14.2 | 4710 | 5278.4 |
| 2 | 110.00 | 100.00 | 549.28 | 14.2 | 4683 | 5254.3 |
| 3 | 120.00 | 90.00 | 549.21 | 14.3 | 4681 | 5247.3 |
| 4 | 110.00 | 90.00 | 549.27 | 14.3 | 4700 | 5270.6 |
| 5 | 25.00 | 75.00 | 549.46 | 14.4 | 4637 | 5216.6 |
| 6 | 5.00 | 75.00 | 549.39 | 14.5 | 4622 | 5191.0 |
| 7 | 20.00 | 100.00 | 549.27 | 14.6 | 4648 | 5201.6 |
| 8 | 25.00 | 85.00 | 549.13 | 14.6 | 4672 | 5219.1 |
| 9 | 90.00 | 110.00 | 549.21 | 14.7 | 4736 | 5285.2 |
| 10 | 100.00 | 110.00 | 549.21 | 14.8 | 4733 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/CB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4710.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4683.00 | 2.19 | 0.00 | 10.00 | 2.30 | 4.97 | 5254.28 |
| 4681.00 | 4.38 | 0.00 | 20.00 | 4.61 | 0.00 | 5247.25 |
| 4700.00 | 5.85 | 0.00 | 20.00 | 4.61 | 4.26 | 5270.58 |
| 4637.00 | 8.77 | 0.00 | 35.00 | 8.07 | 17.76 | 5216.57 |
| 4622.00 | 13.15 | 0.00 | 35.00 | 8.07 | 12.79 | 5191.01 |
| 4648.00 | 16.07 | 0.00 | 10.00 | 2.30 | 4.02 | 5201.64 |
| 4672.00 | 18.27 | 0.00 | 25.00 | 5.76 | -5.69 | 5219.12 |
| 4736.00 | 21.19 | 0.00 | 0.00 | 0.00 | 0.00 | 5285.24 |
| 4733.00 | 26.84 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdb10 FILE: wdb10.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080289 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 14.8 | 4733 | 5278.4 |
| 2 | 20.00 | 110.00 | 549.45 | 14.8 | 4652 | 5205.4 |
| 3 | 15.00 | 105.00 | 549.15 | 14.9 | 4658 | 5188.4 |
| 4 | 15.00 | 75.00 | 549.40 | 14.9 | 4632 | 5181.7 |
| 5 | 170.00 | 40.00 | 548.23 | 15.1 | 4685 | 5158.1 |
| 6 | 0.00 | 80.00 | 549.24 | 15.1 | 4618 | 5144.1 |
| 7 | 0.00 | 85.00 | 549.22 | 15.2 | 4624 | 5144.7 |
| 8 | 20.00 | 100.00 | 549.27 | 15.3 | 4668 | 5189.5 |
| 9 | 40.00 | 120.00 | 549.26 | 15.3 | 4696 | 5212.2 |
| 10 | 100.00 | 110.00 | 549.21 | 15.4 | 4763 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/CB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4733.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4652.00 | 2.49 | 0.00 | 0.00 | 0.00 | 17.05 | 5205.42 |
| 4658.00 | 5.82 | 0.00 | 5.00 | 1.15 | -4.26 | 5188.42 |
| 4632.00 | 9.14 | 0.00 | 35.00 | 8.07 | 13.50 | 5181.69 |
| 4685.00 | 14.96 | 0.00 | 70.00 | 16.13 | -69.63 | 5158.05 |
| 4618.00 | 19.11 | 0.00 | 30.00 | 6.91 | 2.13 | 5144.08 |
| 4624.00 | 22.43 | 0.00 | 25.00 | 5.76 | 0.71 | 5144.66 |
| 4668.00 | 24.93 | 0.00 | 10.00 | 2.30 | 4.02 | 5189.55 |
| 4696.00 | 27.42 | 0.00 | -10.00 | -2.30 | 3.55 | 5212.22 |
| 4763.00 | 32.40 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdb11 FILE: wdb11.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080289 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 15.4 | 4763 | 5278.4 |
| 2 | 60.00 | 140.00 | 547.19 | 15.5 | 4862 | 5235.1 |
| 3 | 20.00 | 160.00 | 549.31 | 15.5 | 4636 | 5137.6 |
| 4 | 0.00 | 80.00 | 549.36 | 15.6 | 4620 | 5142.6 |
| 5 | 0.00 | 130.00 | 549.39 | 15.6 | 4640 | 5155.3 |
| 6 | 50.00 | 130.00 | 549.28 | 15.6 | 4702 | 5215.2 |
| 7 | 25.00 | 85.00 | 549.13 | 15.7 | 4691 | 5203.5 |
| 8 | 15.00 | 85.00 | 549.35 | 15.7 | 4665 | 5191.4 |
| 9 | 90.00 | 140.00 | 549.20 | 15.8 | 4753 | 5263.6 |
| 10 | 100.00 | 110.00 | 549.21 | 15.9 | 4759 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/OB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4763.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4862.00 | -0.50 | 0.00 | -30.00 | -6.91 | -143.77 | 5235.10 |
| 4636.00 | -0.83 | 0.00 | -50.00 | -11.52 | 7.13 | 5137.59 |
| 4620.00 | -1.33 | 0.00 | 30.00 | 6.91 | 10.42 | 5142.56 |
| 4640.00 | -1.83 | 0.00 | -20.00 | -4.61 | 12.55 | 5155.27 |
| 4702.00 | -2.33 | 0.00 | -20.00 | -4.61 | 4.97 | 5215.15 |
| 4691.00 | -2.82 | 0.00 | 25.00 | 5.76 | -5.69 | 5203.49 |
| 4665.00 | -3.16 | 0.00 | 25.00 | 5.76 | 9.94 | 5191.37 |
| 4753.00 | -3.66 | 0.00 | -30.00 | -6.91 | -0.71 | 5263.38 |
| 4759.00 | -4.32 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdb12 FILE: wdb12.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080289 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 15.9 | 4759 | 5278.4 |
| 2 | 130.00 | 140.00 | 549.19 | 15.9 | 4787 | 5298.5 |
| 3 | 150.00 | 100.00 | 549.39 | 16.0 | 4722 | 5250.8 |
| 4 | 110.00 | 100.00 | 549.28 | 16.0 | 4753 | 5276.0 |
| 5 | 160.00 | 130.00 | 549.06 | 16.0 | 4770 | 5271.4 |
| 6 | 170.00 | 100.00 | 549.12 | 16.1 | 4749 | 5258.6 |
| 7 | 60.00 | 140.00 | 547.19 | 16.1 | 4857 | 5227.6 |
| 8 | 80.00 | 120.00 | 549.28 | 16.2 | 4747 | 5261.1 |
| 9 | 120.00 | 120.00 | 549.27 | 16.2 | 4779 | 5294.3 |
| 10 | 100.00 | 110.00 | 549.21 | 16.3 | 4767 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/OB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4759.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4787.00 | 1.73 | 0.00 | -30.00 | -6.91 | -1.42 | 5298.53 |
| 4722.00 | 2.42 | 0.00 | 10.00 | 2.30 | 12.55 | 5250.82 |
| 4753.00 | 3.11 | 0.00 | 10.00 | 2.30 | 4.97 | 5276.04 |
| 4770.00 | 3.80 | 0.00 | -20.00 | -4.61 | -10.43 | 5271.40 |
| 4749.00 | 4.84 | 0.00 | 10.00 | 2.30 | -6.40 | 5258.62 |
| 4857.00 | 5.88 | 0.00 | -30.00 | -6.91 | -143.77 | 5227.64 |
| 4747.09 | 6.91 | 0.00 | -10.00 | -2.30 | 4.97 | 5261.15 |
| 4779.00 | 7.60 | 0.00 | -10.00 | -2.30 | 4.26 | 5294.31 |
| 4767.00 | 8.64 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdb13 FILE: wdb13.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.06008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080289 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 16.3 | 4767 | 5278.4 |
| 2 | 60.00 | 160.00 | 547.08 | 16.4 | 4879 | 5230.3 |
| 3 | 70.00 | 120.00 | 549.35 | 16.4 | 4755 | 5263.3 |
| 4 | 130.00 | 140.00 | 549.26 | 16.5 | 4812 | 5310.3 |
| 5 | 100.00 | 150.00 | 549.27 | 16.5 | 4801 | 5292.3 |
| 6 | 15.00 | 95.00 | 549.24 | 16.6 | 4706 | 5194.3 |
| 7 | 0.00 | 130.00 | 549.39 | 16.7 | 4679 | 5162.7 |
| 8 | 25.00 | 95.00 | 549.39 | 16.7 | 4727 | 5220.3 |
| 9 | 60.00 | 120.00 | 547.17 | 16.8 | 4926 | 5266.9 |
| 10 | 80.00 | 160.00 | 549.40 | 16.8 | 4763 | 5236.6 |
| 11 | 100.00 | 110.00 | 549.21 | 16.9 | 4811 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4767.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4879.00 | 5.94 | 0.00 | -50.00 | -11.52 | -151.58 | 5230.27 |
| 4755.00 | 9.50 | 0.00 | -10.00 | -2.30 | 9.71 | 5263.29 |
| 4812.00 | 13.07 | 0.00 | -30.00 | -6.91 | 3.31 | 5310.28 |
| 4801.00 | 17.82 | 0.00 | -40.00 | -9.22 | 4.26 | 5292.30 |
| 4706.00 | 23.76 | 0.00 | 15.00 | 3.46 | 2.13 | 5194.29 |
| 4679.00 | 28.51 | 0.00 | -20.00 | -4.61 | 12.55 | 5162.73 |
| 4727.00 | 30.89 | 0.00 | 15.00 | 3.46 | 12.55 | 5220.27 |
| 4926.00 | 35.64 | 0.00 | -10.00 | -2.30 | -145.19 | 5266.95 |
| 4763.00 | 39.21 | 0.00 | -50.00 | -11.52 | 13.26 | 5236.56 |
| 4811.00 | 47.52 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdb14 FILE: wdb14.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.06008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080289 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 16.9 | 4811 | 5278.4 |
| 2 | 110.00 | 140.00 | 549.26 | 17.0 | 4844 | 5307.8 |
| 3 | 140.00 | 160.00 | 549.24 | 17.0 | 4817 | 5269.7 |
| 4 | 150.00 | 100.00 | 549.27 | 17.1 | 4784 | 5247.2 |
| 5 | 170.00 | 120.00 | 549.10 | 17.1 | 4822 | 5267.8 |
| 6 | 110.00 | 170.00 | 549.37 | 17.2 | 4789 | 5235.1 |
| 7 | 100.00 | 150.00 | 549.27 | 17.3 | 4839 | 5283.7 |
| 8 | 90.00 | 180.00 | 549.17 | 17.3 | 4776 | 5198.8 |
| 9 | 90.00 | 130.00 | 549.19 | 17.4 | 4842 | 5280.2 |
| 10 | 100.00 | 120.00 | 549.24 | 17.5 | 4848 | 5288.7 |
| 11 | 100.00 | 110.00 | 549.21 | 17.6 | 4847 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4811.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4844.00 | 2.85 | 0.00 | -30.00 | -6.91 | 3.55 | 5307.79 |
| 4817.00 | 5.69 | 0.00 | -50.00 | -11.52 | 2.13 | 5269.75 |
| 4784.00 | 8.54 | 0.00 | 10.00 | 2.30 | 4.26 | 5247.22 |
| 4822.00 | 12.33 | 0.00 | -10.00 | -2.30 | -7.82 | 5267.78 |
| 4789.00 | 17.07 | 0.00 | -60.00 | -13.83 | 11.37 | 5235.06 |
| 4839.00 | 19.92 | 0.00 | -40.00 | -9.22 | 4.26 | 5283.72 |
| 4776.00 | 22.76 | 0.00 | -70.00 | -16.13 | -2.84 | 5198.81 |
| 4842.00 | 25.61 | 0.00 | -20.00 | -4.61 | -1.42 | 5280.20 |
| 4848.00 | 29.40 | 0.00 | -10.00 | -2.30 | 2.13 | 5288.74 |
| 4847.00 | 38.88 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

<<< DATA SUMMARY >>>

PROGRAM: wdb15 FILE: wdb15.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080289 |

< FIELD DATA AND RESULTS >

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 17.6 | 4847 | 5278.4 |
| 2 | 70.00 | 150.00 | 549.21 | 17.7 | 4821 | 5239.1 |
| 3 | 25.00 | 105.00 | 549.45 | 17.7 | 4773 | 5211.7 |
| 4 | 60.00 | 180.00 | 547.02 | 17.8 | 4909 | 5166.5 |
| 5 | 70.00 | 170.00 | 549.13 | 17.8 | 4797 | 5196.0 |
| 6 | 130.00 | 40.00 | 549.17 | 17.8 | 4756 | 5181.6 |
| 7 | 130.00 | 100.00 | 549.20 | 17.9 | 4834 | 5252.2 |
| 8 | 160.00 | 110.00 | 549.14 | 17.9 | 4857 | 5268.5 |
| 9 | 140.00 | 130.00 | 549.16 | 17.9 | 4864 | 5271.7 |
| 10 | 100.00 | 110.00 | 549.21 | 18.0 | 4866 | 5278.4 |

< CORRECTIONS >

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4847.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4821.00 | 1.95 | 0.00 | -40.00 | -9.22 | 0.00 | 5239.09 |
| 4773.00 | 4.89 | 0.00 | 5.00 | 1.15 | 17.05 | 5211.74 |
| 4909.00 | 6.84 | 0.00 | -70.00 | -16.13 | -155.84 | 5166.50 |
| 4797.00 | 8.79 | 0.00 | -60.00 | -13.83 | -5.69 | 5196.04 |
| 4756.00 | 11.73 | 0.00 | 70.00 | 16.13 | -2.84 | 5181.63 |
| 4834.00 | 13.68 | 0.00 | 10.00 | 2.30 | -0.71 | 5252.22 |
| 4857.00 | 15.64 | 0.00 | 0.00 | 0.00 | -4.97 | 5268.54 |
| 4864.00 | 16.61 | 0.00 | -20.00 | -4.61 | -3.79 | 5271.70 |
| 4866.00 | 20.52 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

<<< DATA SUMMARY >>>

PROGRAM: wdb16 FILE: wdb16.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080289 |

< FIELD DATA AND RESULTS >

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 18.0 | 4866 | 5278.4 |
| 2 | 140.00 | 110.00 | 549.24 | 18.0 | 4830 | 5236.1 |
| 3 | 120.00 | 160.00 | 549.30 | 18.1 | 4870 | 5268.3 |
| 4 | 70.00 | 150.00 | 549.21 | 18.1 | 4836 | 5223.8 |
| 5 | 30.00 | 140.00 | 549.33 | 18.1 | 4808 | 5200.7 |
| 6 | 15.00 | 115.00 | 549.33 | 18.2 | 4796 | 5188.2 |
| 7 | 110.00 | 140.00 | 549.31 | 18.3 | 4931 | 5321.1 |
| 8 | 170.00 | 140.00 | 549.08 | 18.3 | 4891 | 5256.0 |
| 9 | 130.00 | 110.00 | 549.15 | 18.3 | 4916 | 5291.2 |
| 10 | 110.00 | 120.00 | 549.47 | 18.4 | 4900 | 5290.4 |
| 11 | 100.00 | 110.00 | 549.21 | 18.4 | 4907 | 5278.4 |

< CORRECTIONS >

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4866.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4830.00 | 5.54 | 0.00 | 0.00 | 0.00 | 2.13 | 5236.06 |
| 4870.00 | 9.23 | 0.00 | -50.00 | -11.52 | 6.39 | 5268.31 |
| 4836.00 | 12.92 | 0.00 | -40.00 | -9.22 | 0.00 | 5223.81 |
| 4808.00 | 16.61 | 0.00 | -30.00 | -6.91 | 8.53 | 5200.71 |
| 4796.00 | 22.14 | 0.00 | -5.00 | -1.15 | 8.76 | 5188.21 |
| 4931.00 | 27.68 | 0.00 | -30.00 | -6.91 | 7.10 | 5321.07 |
| 4891.00 | 33.21 | 0.00 | -30.00 | -6.91 | -9.24 | 5255.99 |
| 4916.00 | 36.90 | 0.00 | 0.00 | 0.00 | -4.26 | 5291.19 |
| 4900.00 | 40.59 | 0.00 | -10.00 | -2.30 | 18.23 | 5290.41 |
| 4907.00 | 44.28 | 0.00 | 0.00 | 0.00 | 0.60 | 5278.35 |

<<< DATA SUMMARY >>>

PROGRAM: wdc11 FILE: wdc11.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080389 |

< FIELD DATA AND RESULTS >

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 16.8 | 4816 | 5278.4 |
| 2 | 150.00 | 130.00 | 549.05 | 16.8 | 4827 | 5273.7 |
| 3 | 110.00 | 180.00 | 549.26 | 16.9 | 4783 | 5229.1 |
| 4 | 80.00 | 170.00 | 549.41 | 16.9 | 4768 | 5225.3 |
| 5 | 40.00 | 200.00 | 549.37 | 17.0 | 4700 | 5141.7 |
| 6 | 10.00 | 180.00 | 549.40 | 17.0 | 4691 | 5138.4 |
| 7 | 60.00 | 220.00 | 547.15 | 17.0 | 4851 | 5141.2 |
| 8 | 50.00 | 180.00 | 549.15 | 17.1 | 4730 | 5161.5 |
| 9 | 100.00 | 110.00 | 549.21 | 17.1 | 4820 | 5278.4 |

< CORRECTIONS >

| READING | DRIFT | TIDE | DEPART | LATDE | FA/OB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4816.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4827.00 | 0.59 | 0.00 | -20.00 | -4.61 | -11.37 | 5273.66 |
| 4783.00 | 0.98 | 0.00 | -70.00 | -16.13 | 3.55 | 5229.14 |
| 4768.00 | 1.37 | 0.00 | -60.00 | -13.83 | 13.97 | 5225.27 |
| 4700.00 | 1.96 | 0.00 | -90.00 | -20.74 | 11.37 | 5141.72 |
| 4691.00 | 2.36 | 0.00 | -70.00 | -16.13 | 13.50 | 5138.35 |
| 4851.00 | 2.95 | 0.00 | -110.00 | -25.35 | -146.61 | 5141.25 |
| 4730.00 | 3.53 | 0.00 | -70.00 | -16.13 | -4.26 | 5161.53 |
| 4820.00 | 4.32 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

<<< DATA SUMMARY >>>

PROGRAM: wdc12 FILE: wdc12.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080389 |

< FIELD DATA AND RESULTS >

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 17.1 | 4822 | 5278.4 |
| 2 | 30.00 | 150.00 | 549.24 | 17.2 | 4755 | 5194.1 |
| 3 | 0.00 | 190.00 | 549.33 | 17.2 | 4678 | 5104.9 |
| 4 | 110.00 | 220.00 | 549.12 | 17.3 | 4748 | 5152.3 |
| 5 | 70.00 | 200.00 | 549.15 | 17.3 | 4728 | 5134.2 |
| 6 | 90.00 | 190.00 | 549.15 | 17.4 | 4785 | 5193.3 |
| 7 | 10.00 | 180.00 | 549.40 | 17.4 | 4691 | 5107.1 |
| 8 | 20.00 | 150.00 | 549.41 | 17.5 | 4743 | 5166.1 |
| 9 | 100.00 | 110.00 | 549.21 | 17.5 | 4856 | 5278.4 |

< CORRECTIONS >

| READING | DRIFT | TIDE | DEPART | LATDE | FA/OB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4822.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4755.00 | 4.79 | 0.00 | -40.00 | -9.22 | 2.13 | 5194.11 |
| 4678.00 | 7.98 | 0.00 | -80.00 | -18.44 | 8.53 | 5104.92 |
| 4748.00 | 14.37 | 0.00 | -110.00 | -25.35 | -6.40 | 5152.31 |
| 4728.00 | 17.56 | 0.00 | -90.00 | -20.74 | -4.27 | 5134.25 |
| 4785.00 | 22.35 | 0.00 | -80.00 | -18.44 | -4.26 | 5193.33 |
| 4691.00 | 27.14 | 0.00 | -70.00 | -16.13 | 13.50 | 5107.08 |
| 4743.00 | 31.93 | 0.00 | -40.00 | -9.22 | 14.21 | 5166.08 |
| 4856.00 | 36.72 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdc9 FILE: wdc9.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080389 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 15.5 | 4775 | 5278.4 |
| 2 | 80.00 | 170.00 | 549.41 | 15.6 | 4708 | 5204.4 |
| 3 | 20.00 | 210.00 | 549.27 | 15.6 | 4611 | 5078.4 |
| 4 | 0.00 | 105.00 | 549.25 | 15.7 | 4665 | 5157.2 |
| 5 | 20.00 | 140.00 | 549.39 | 15.8 | 4690 | 5184.4 |
| 6 | 100.00 | 160.00 | 549.22 | 15.9 | 4784 | 5267.6 |
| 7 | 100.00 | 210.00 | 549.26 | 16.0 | 4669 | 5132.1 |
| 8 | 80.00 | 200.00 | 549.27 | 16.0 | 4683 | 5148.4 |
| 9 | 100.00 | 110.00 | 549.21 | 16.2 | 4791 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4775.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4708.00 | 1.69 | 0.00 | -60.00 | -13.83 | 13.97 | 5204.44 |
| 4611.00 | 3.79 | 0.00 | -100.00 | -23.05 | 4.02 | 5078.40 |
| 4665.00 | 6.32 | 0.00 | 5.00 | 1.15 | 2.84 | 5157.21 |
| 4690.00 | 8.01 | 0.00 | -30.00 | -6.91 | 12.79 | 5184.41 |
| 4784.00 | 9.69 | 0.00 | -50.00 | -11.52 | 0.71 | 5267.56 |
| 4669.00 | 12.22 | 0.00 | -100.00 | -23.05 | 3.55 | 5132.14 |
| 4683.00 | 13.91 | 0.00 | -90.00 | -20.74 | 4.02 | 5148.35 |
| 4791.00 | 17.28 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdc10 FILE: wdc10.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080389 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 16.2 | 4791 | 5278.4 |
| 2 | 100.00 | 180.00 | 549.31 | 16.3 | 4749 | 5220.2 |
| 3 | 50.00 | 190.00 | 549.18 | 16.3 | 4692 | 5144.1 |
| 4 | 120.00 | 170.00 | 549.32 | 16.4 | 4773 | 5243.1 |
| 5 | 100.00 | 200.00 | 549.14 | 16.5 | 4725 | 5169.3 |
| 6 | 60.00 | 220.00 | 547.15 | 16.5 | 4822 | 5124.9 |
| 7 | 80.00 | 200.00 | 549.15 | 16.6 | 4717 | 5155.4 |
| 8 | 110.00 | 220.00 | 549.12 | 16.6 | 4703 | 5131.3 |
| 9 | 100.00 | 110.00 | 549.21 | 16.8 | 4816 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4791.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4749.00 | 3.75 | 0.00 | -70.00 | -16.13 | 7.10 | 5220.21 |
| 4692.00 | 6.75 | 0.00 | -80.00 | -18.44 | -2.13 | 5144.10 |
| 4773.00 | 9.75 | 0.00 | -60.00 | -13.83 | 7.81 | 5243.14 |
| 4725.00 | 12.00 | 0.00 | -90.00 | -20.74 | -4.97 | 5169.35 |
| 4822.00 | 15.00 | 0.00 | -110.00 | -25.35 | -146.61 | 5124.87 |
| 4717.00 | 18.00 | 0.00 | -90.00 | -20.74 | -4.26 | 5155.42 |
| 4703.00 | 20.25 | 0.00 | -110.00 | -25.35 | -6.40 | 5131.30 |
| 4816.00 | 27.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdc7 FILE: wdc7.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080389 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 14.5 | 4749 | 5278.4 |
| 2 | 50.00 | 150.00 | 549.24 | 14.5 | 4686 | 5203.2 |
| 3 | 5.00 | 125.00 | 549.35 | 14.6 | 4637 | 5163.9 |
| 4 | 20.00 | 120.00 | 549.34 | 14.6 | 4671 | 5201.0 |
| 5 | 0.00 | 105.00 | 549.25 | 14.7 | 4647 | 5172.2 |
| 6 | 0.00 | 120.00 | 549.26 | 14.7 | 4647 | 5169.4 |
| 7 | 140.00 | 200.00 | 549.09 | 14.8 | 4678 | 5172.4 |
| 8 | 130.00 | 150.00 | 549.23 | 14.9 | 4743 | 5264.3 |
| 9 | 100.00 | 110.00 | 549.21 | 15.0 | 4749 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4749.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4686.00 | 0.00 | 0.00 | -40.00 | -9.22 | 2.13 | 5203.22 |
| 4637.00 | 0.00 | 0.00 | -15.00 | -3.46 | 9.94 | 5163.87 |
| 4671.00 | 0.00 | 0.00 | -10.00 | -2.30 | 9.24 | 5201.04 |
| 4647.00 | 0.00 | 0.00 | 5.00 | 1.15 | 2.84 | 5172.18 |
| 4647.00 | 0.00 | 0.00 | -10.00 | -2.30 | 3.55 | 5169.43 |
| 4678.00 | 0.00 | 0.00 | -90.00 | -20.74 | -8.53 | 5172.40 |
| 4743.00 | 0.00 | 0.00 | -40.00 | -9.22 | 1.66 | 5264.31 |
| 4749.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdc8 FILE: wdc8.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080389 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 15.0 | 4749 | 5278.4 |
| 2 | 120.00 | 170.00 | 549.32 | 15.1 | 4708 | 5224.3 |
| 3 | 140.00 | 120.00 | 549.16 | 15.1 | 4735 | 5250.8 |
| 4 | 170.00 | 160.00 | 549.05 | 15.2 | 4738 | 5231.4 |
| 5 | 140.00 | 190.00 | 549.27 | 15.3 | 4692 | 5187.6 |
| 6 | 100.00 | 210.00 | 549.26 | 15.3 | 4649 | 5133.1 |
| 7 | 50.00 | 150.00 | 549.32 | 15.4 | 4703 | 5206.8 |
| 8 | 110.00 | 130.00 | 549.41 | 15.4 | 4791 | 5308.0 |
| 9 | 100.00 | 110.00 | 549.21 | 15.5 | 4775 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4749.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4708.00 | 3.74 | 0.00 | -60.00 | -13.83 | 7.81 | 5224.31 |
| 4735.00 | 6.55 | 0.00 | -70.00 | -2.30 | -3.56 | 5250.82 |
| 4738.00 | 12.17 | 0.00 | -30.00 | -11.52 | -11.37 | 5231.41 |
| 4692.00 | 14.98 | 0.00 | -80.00 | -18.44 | 4.26 | 5187.63 |
| 4649.00 | 17.79 | 0.00 | -100.00 | -23.05 | 3.95 | 5133.06 |
| 4703.00 | 21.53 | 0.00 | -40.00 | -9.22 | 8.85 | 5205.97 |
| 4791.00 | 25.27 | 0.00 | -20.00 | -4.61 | 14.21 | 5308.04 |
| 4775.00 | 28.08 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdc5 FILE: wdc5.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080389 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 11.4 | 4827 | 5278.4 |
| 2 | 70.00 | 130.00 | 549.26 | 11.4 | 4779 | 5230.4 |
| 3 | 40.00 | 170.00 | 549.39 | 11.5 | 4704 | 5153.2 |
| 4 | 30.00 | 130.00 | 549.23 | 11.6 | 4732 | 5185.5 |
| 5 | 20.00 | 120.00 | 549.34 | 11.6 | 4722 | 5189.8 |
| 6 | 70.00 | 160.00 | 549.17 | 11.7 | 4760 | 5214.6 |
| 7 | 110.00 | 150.00 | 549.33 | 11.8 | 4810 | 5286.3 |
| 8 | 150.00 | 120.00 | 549.00 | 12.0 | 4766 | 5232.2 |
| 9 | 100.00 | 110.00 | 549.21 | 12.2 | 4778 | 5278.4 |

---------- ---------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4827.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4779.00 | -4.99 | 0.00 | -20.00 | -4.61 | 3.55 | 5230.44 |
| 4704.00 | -8.99 | 0.00 | -60.00 | -13.83 | 12.55 | 5153.21 |
| 4732.00 | -12.98 | 0.00 | -20.00 | -4.61 | 1.42 | 5185.53 |
| 4722.00 | -17.97 | 0.00 | -10.00 | -2.30 | 9.24 | 5189.85 |
| 4760.00 | -22.97 | 0.00 | -50.00 | -11.52 | -2.84 | 5214.58 |
| 4810.00 | -26.96 | 0.00 | -40.00 | -9.22 | 8.53 | 5286.26 |
| 4766.00 | -36.95 | 0.00 | -10.00 | -2.30 | -14.92 | 5232.19 |
| 4778.00 | -52.92 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdc6 FILE: wdc6.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080389 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 12.3 | 4779 | 5278.4 |
| 2 | 150.00 | 140.00 | 549.22 | 12.3 | 4777 | 5273.0 |
| 3 | 170.00 | 160.30 | 549.05 | 12.4 | 4754 | 5233.2 |
| 4 | 170.00 | 180.00 | 549.09 | 12.4 | 4713 | 5188.9 |
| 5 | 140.00 | 200.00 | 549.09 | 12.5 | 4688 | 5159.7 |
| 6 | 130.00 | 120.00 | 549.11 | 12.6 | 4760 | 5260.3 |
| 7 | 70.00 | 130.00 | 549.26 | 12.6 | 4738 | 5246.7 |
| 8 | 90.00 | 150.00 | 549.21 | 12.7 | 4755 | 5260.4 |
| 9 | 100.00 | 110.00 | 549.21 | 12.9 | 4757 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4779.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4777.00 | -2.97 | 0.00 | -30.00 | -6.91 | 0.71 | 5272.95 |
| 4754.00 | -4.75 | 0.00 | -50.00 | -11.52 | -11.37 | 5233.21 |
| 4713.00 | -6.53 | 0.00 | -70.00 | -16.13 | -3.53 | 5188.94 |
| 4688.00 | -8.91 | 0.00 | -90.00 | -20.74 | -8.53 | 5159.79 |
| 4760.00 | -11.88 | 0.00 | -10.00 | -2.30 | -7.11 | 5260.30 |
| 4738.00 | -13.66 | 0.00 | -20.00 | -4.61 | 3.55 | 5246.67 |
| 4755.00 | -17.23 | 0.00 | -40.00 | -9.22 | 0.00 | 5260.44 |
| 4757.00 | -23.76 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

<<< DATA SUMMARY >>>

PROGRAM: wdc3 FILE: wdc3.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080389 |

< FIELD DATA AND RESULTS >

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 10.2 | 4891 | 5278.4 |
| 2 | 70.00 | 140.00 | 549.22 | 10.3 | 4849 | 5233.5 |
| 3 | 30.00 | 130.00 | 549.23 | 10.3 | 4807 | 5197.8 |
| 4 | 0.00 | 150.00 | 549.29 | 10.4 | 4734 | 5127.5 |
| 5 | 30.00 | 120.00 | 549.28 | 10.5 | 4797 | 5210.7 |
| 6 | 50.00 | 160.00 | 549.25 | 10.6 | 4788 | 5200.8 |
| 7 | 110.00 | 190.00 | 549.24 | 10.6 | 4796 | 5208.5 |
| 8 | 130.00 | 180.00 | 549.17 | 10.7 | 4831 | 5252.5 |
| 9 | 100.00 | 110.00 | 549.21 | 10.8 | 4827 | 5278.4 |

< CORRECTIONS >

| READING | DRIFT | TIDE | DEPART | LATDE | FA/0B | G(UGALS) |
|---|---|---|---|---|---|---|
| 4891.00 | [illegible] | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4849.00 | -6.69 | 0.00 | -30.00 | -6.91 | 0.71 | 5233.47 |
| 4807.00 | -13.38 | 0.00 | -20.00 | -4.61 | 1.42 | 5197.81 |
| 4734.00 | -22.30 | 0.00 | -40.00 | -9.22 | 5.68 | 5127.54 |
| 4797.00 | -31.22 | 0.00 | -10.00 | -2.30 | 4.97 | 5210.71 |
| 4788.00 | -42.37 | 0.00 | -50.00 | -11.52 | 2.84 | 5200.79 |
| 4796.00 | -49.06 | 0.00 | -80.00 | -18.44 | 2.13 | 5208.49 |
| 4831.00 | -57.98 | 0.00 | -70.00 | -16.13 | -2.84 | 5252.54 |
| 4827.00 | -69.13 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

<<< DATA SUMMARY >>>

PROGRAM: wdc4 FILE: wdc4.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080389 |

< FIELD DATA AND RESULTS >

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 10.8 | 4827 | 5278.4 |
| 2 | 150.00 | 110.00 | 549.30 | 10.9 | 4801 | 5256.7 |
| 3 | 140.00 | 150.00 | 549.30 | 10.9 | 4811 | 5258.2 |
| 4 | 160.00 | 140.00 | 549.13 | 11.0 | 4823 | 5261.7 |
| 5 | 170.00 | 180.00 | 549.14 | 11.1 | 4768 | 5193.5 |
| 6 | 130.00 | 130.00 | 549.17 | 11.1 | 4839 | 5283.9 |
| 7 | 130.00 | 180.00 | 549.17 | 11.2 | 4804 | 5234.5 |
| 8 | 110.00 | 150.00 | 549.33 | 11.2 | 4854 | 5306.8 |
| 9 | 100.00 | 110.00 | 549.21 | 11.3 | 4827 | 5278.4 |

< CORRECTIONS >

| READING | DRIFT | TIDE | DEPART | LATDE | FA/0B | G(UGALS) |
|---|---|---|---|---|---|---|
| 4827.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4801.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.39 | 5256.66 |
| 4811.00 | 0.00 | 0.00 | -40.00 | -9.22 | 6.39 | 5258.24 |
| 4823.00 | 0.00 | 0.00 | -30.00 | -6.91 | -5.45 | 5261.67 |
| 4768.00 | 0.00 | 0.00 | -70.00 | -16.13 | -4.97 | 5193.52 |
| 4839.00 | 0.00 | 0.00 | -20.00 | -4.61 | -2.84 | 5283.86 |
| 4804.00 | 0.00 | 0.00 | -70.00 | -16.13 | -2.84 | 5234.53 |
| 4854.00 | 0.00 | 0.00 | -40.00 | -9.22 | 8.53 | 5306.82 |
| 4827.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdc1 FILE: wdc1.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080389 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 9.1 | 4934 | 5278.4 |
| 2 | 50.00 | 140.00 | 549.24 | 9.2 | 4863 | 5200.8 |
| 3 | 0.00 | 150.00 | 549.25 | 9.2 | 4824 | 5160.0 |
| 4 | 60.00 | 180.00 | 547.02 | 9.3 | 5018 | 5207.9 |
| 5 | 25.00 | 115.00 | 549.44 | 9.4 | 4858 | 5225.9 |
| 6 | 40.00 | 160.00 | 549.38 | 9.4 | 4847 | 5203.3 |
| 7 | 70.00 | 180.00 | 549.14 | 9.5 | 4862 | 5202.0 |
| 8 | 110.00 | 120.0 | 549.47 | 9.6 | 4927 | 5314.1 |
| 9 | 100.00 | 110.0 | 549.21 | 9.6 | 4905 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/BB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4934.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5273.35 |
| 4863.00 | -3.92 | 0.00 | -30.00 | -6.91 | 2.13 | 5200.80 |
| 4824.00 | -6.85 | 0.00 | -40.00 | -9.22 | 2.84 | 5160.01 |
| 5018.00 | -10.77 | 0.00 | -70.00 | -16.13 | -155.84 | 5207.87 |
| 4858.00 | -14.68 | 0.00 | -5.00 | -1.15 | 16.10 | 5225.90 |
| 4847.00 | -18.60 | 0.00 | -50.00 | -11.52 | 11.84 | 5203.30 |
| 4862.00 | -22.51 | 0.00 | -70.00 | -16.13 | -4.97 | 5201.99 |
| 4927.00 | -27.41 | 0.00 | -10.00 | -2.30 | 18.23 | 5314.12 |
| 4905.00 | -31.32 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdc2 FILE: wdc2.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080389 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 9.7 | 4903 | 5278.4 |
| 2 | 140.00 | 100.00 | 549.27 | 9.7 | 4872 | 5252.6 |
| 3 | 160.00 | 140.00 | 549.05 | 9.8 | 4913 | 5273.2 |
| 4 | 130.00 | 110.00 | 549.15 | 9.8 | 4881 | 5254.3 |
| 5 | 150.00 | 180.00 | 549.21 | 9.9 | 4851 | 5211.6 |
| 6 | 110.00 | 190.00 | 549.36 | 10.0 | 4815 | 5182.4 |
| 7 | 70.00 | 180.00 | 549.14 | 10.1 | 4812 | 5168.0 |
| 8 | 90.00 | 120.00 | 549.20 | 10.1 | 4876 | 5257.2 |
| 9 | 100.00 | 110.00 | 549.21 | 10.2 | 4891 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/BB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4903.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4872.00 | -1.18 | 0.00 | 10.00 | 2.30 | 4.26 | 5252.61 |
| 4913.00 | -2.36 | 0.00 | -30.00 | -6.91 | -11.37 | 5273.22 |
| 4881.00 | -3.93 | 0.00 | 0.00 | 0.00 | -4.26 | 5254.25 |
| 4851.00 | -5.50 | 0.00 | -70.00 | -16.13 | 0.00 | 5211.55 |
| 4815.00 | -7.07 | 0.00 | -80.00 | -18.44 | 10.42 | 5182.35 |
| 4812.00 | -9.03 | 0.00 | -70.00 | -16.13 | -4.97 | 5167.99 |
| 4876.00 | -11.00 | 0.00 | -10.00 | -2.30 | -0.71 | 5257.17 |
| 4891.00 | -12.96 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdd1 FILE: wdd1.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080489 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 8.0 | 4991 | 5278.4 |
| 2 | 100.00 | 140.00 | 549.32 | 8.0 | 5001 | 5290.7 |
| 3 | 140.00 | 140.00 | 549.27 | 8.1 | 4985 | 5270.8 |
| 4 | 170.00 | 120.00 | 549.10 | 8.1 | 4979 | 5257.7 |
| 5 | 170.00 | 200.00 | 549.15 | 8.2 | 4873 | 5129.0 |
| 6 | 130.00 | 230.00 | 549.21 | 8.3 | 4808 | 5056.8 |
| 7 | 90.00 | 180.00 | 549.22 | 8.3 | 4936 | 5208.0 |
| 8 | 90.00 | 160.00 | 549.23 | 8.4 | 4956 | 5236.0 |
| 9 | 80.00 | 150.00 | 549.25 | 8.4 | 4948 | 5231.8 |
| 10 | 100.00 | 110.00 | 549.21 | 8.5 | 4984 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4991.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 5001.00 | -0.67 | 0.00 | -30.00 | -6.91 | 7.81 | 5290.72 |
| 4985.00 | -1.56 | 0.00 | -30.00 | -6.91 | 4.26 | 5270.78 |
| 4979.00 | -2.45 | 0.00 | -10.00 | -2.30 | -7.82 | 5257.71 |
| 4873.00 | -3.11 | 0.00 | -90.00 | -20.74 | -4.26 | 5129.01 |
| 4808.00 | -3.78 | 0.00 | -120.00 | -27.66 | -0.00 | 5056.81 |
| 4936.00 | -4.45 | 0.00 | -70.00 | -16.13 | 0.71 | 5207.97 |
| 4956.00 | -5.56 | 0.00 | -50.00 | -11.52 | 1.42 | 5236.00 |
| 4948.00 | -6.23 | 0.00 | -40.00 | -9.22 | 2.84 | 5231.75 |
| 4984.00 | -7.56 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdd2 FILE: wdd2.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080489 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 8.5 | 4984 | 5278.4 |
| 2 | 100.00 | 190.00 | 549.26 | 8.6 | 4915 | 5191.0 |
| 3 | 140.00 | 210.00 | 549.28 | 8.7 | 4860 | 5132.8 |
| 4 | 130.00 | 230.00 | 549.21 | 8.8 | 4808 | 5070.0 |
| 5 | 60.00 | 120.00 | 549.05 | 8.9 | 4978 | 5271.0 |
| 6 | 130.00 | 160.00 | 549.17 | 8.9 | 4970 | 5264.3 |
| 7 | 150.00 | 130.00 | 549.05 | 9.0 | 4983 | 5278.7 |
| 8 | 100.00 | 130.00 | 549.22 | 9.1 | 4975 | 5285.3 |
| 9 | 100.00 | 110.00 | 549.21 | 9.1 | 4961 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4984.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4915.00 | -2.01 | 0.00 | -80.00 | -18.44 | 3.55 | 5190.95 |
| 4860.00 | -6.71 | 0.00 | -100.00 | -23.05 | 4.74 | 5132.82 |
| 4808.00 | -9.40 | 0.00 | -120.00 | -27.66 | -0.00 | 5069.99 |
| 4978.00 | -12.76 | 0.00 | -10.00 | -2.30 | -11.37 | 5270.95 |
| 4970.00 | -15.44 | 0.00 | -50.00 | -11.52 | -2.84 | 5264.30 |
| 4983.00 | -17.46 | 0.00 | -20.00 | -4.61 | -11.37 | 5278.75 |
| 4975.00 | -20.81 | 0.00 | -20.00 | -4.61 | 0.47 | 5285.31 |
| 4961.00 | -24.84 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdd3 FILE: wdd3.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080489 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 9.6 | 4957 | 5278.4 |
| 2 | 90.00 | 170.00 | 549.29 | 9.6 | 4903 | 5214.5 |
| 3 | 100.00 | 240.00 | 549.21 | 9.7 | 4763 | 5045.6 |
| 4 | 170.00 | 200.00 | 549.15 | 9.8 | 4846 | 5143.1 |
| 5 | 130.00 | 170.00 | 549.19 | 9.8 | 4940 | 5258.3 |
| 6 | 150.00 | 160.00 | 549.29 | 9.9 | 4943 | 5273.1 |
| 7 | 130.00 | 160.00 | 549.17 | 9.9 | 4917 | 5239.2 |
| 8 | 100.00 | 170.00 | 549.14 | 9.9 | 4916 | 5236.6 |
| 9 | 100.00 | 110.00 | 549.21 | 10.1 | 4931 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4957.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4903.00 | -2.91 | 0.00 | -60.00 | -13.83 | 5.44 | 5214.54 |
| 4763.00 | -6.78 | 0.00 | -130.00 | -29.96 | 0.00 | 5045.63 |
| 4846.00 | -9.68 | 0.00 | -90.00 | -20.74 | -4.26 | 5143.14 |
| 4940.00 | -13.56 | 0.00 | -60.00 | -13.83 | -1.42 | 5258.29 |
| 4943.00 | -15.49 | 0.00 | -50.00 | -11.52 | 5.92 | 5273.12 |
| 4917.00 | -18.40 | 0.00 | -50.00 | -11.52 | -2.84 | 5239.18 |
| 4916.00 | -21.30 | 0.00 | -60.00 | -13.83 | -4.97 | 5236.57 |
| 4931.00 | -28.08 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdd4 FILE: wdd4.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080489 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 10.1 | 4931 | 5278.4 |
| 2 | 110.00 | 160.00 | 549.38 | 10.1 | 4913 | 5261.8 |
| 3 | 120.00 | 200.00 | 549.27 | 10.2 | 4832 | 5160.4 |
| 4 | 100.00 | 190.00 | 549.26 | 10.2 | 4865 | 5200.0 |
| 5 | 150.00 | 220.00 | 549.35 | 10.4 | 4740 | 5070.0 |
| 6 | 140.00 | 180.00 | 549.29 | 10.4 | 4876 | 5226.2 |
| 7 | 100.00 | 240.00 | 549.21 | 10.5 | 4725 | 5044.7 |
| 8 | 150.00 | 200.00 | 549.13 | 10.5 | 4811 | 5143.5 |
| 9 | 100.00 | 110.00 | 549.21 | 10.6 | 4907 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4931.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4913.00 | -2.36 | 0.00 | -50.00 | -11.52 | 12.08 | 5261.82 |
| 4832.00 | -5.50 | 0.00 | -90.00 | -20.74 | 4.26 | 5160.44 |
| 4865.00 | -7.86 | 0.00 | -80.00 | -18.44 | 3.55 | 5200.03 |
| 4740.00 | -13.35 | 0.00 | -110.00 | -25.35 | 9.94 | 5070.00 |
| 4876.00 | -15.71 | 0.00 | -70.00 | -16.13 | 5.68 | 5224.20 |
| 4725.00 | -18.85 | 0.00 | -130.00 | -29.96 | 0.00 | 5044.74 |
| 4811.00 | -21.21 | 0.00 | -90.00 | -20.74 | -5.69 | 5143.52 |
| 4907.00 | -25.92 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdd5 FILE: wdd5.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080489 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 10.6 | 4907 | 5278.4 |
| 2 | 90.00 | 210.00 | 549.14 | 10.8 | 4779 | 5117.3 |
| 3 | 140.00 | 170.00 | 549.27 | 10.8 | 4885 | 5252.3 |
| 4 | 150.00 | 160.00 | 549.26 | 10.9 | 4882 | 5253.3 |
| 5 | 130.00 | 190.00 | 549.17 | 11.0 | 4825 | 5181.7 |
| 6 | 140.00 | 230.00 | 549.28 | 11.1 | 4696 | 5044.0 |
| 7 | 120.00 | 200.00 | 549.34 | 11.2 | 4805 | 5176.8 |
| 8 | 120.00 | 240.00 | 549.38 | 11.2 | 4671 | 5028.6 |
| 9 | 100.00 | 110.00 | 549.21 | 11.3 | 4882 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4907.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4779.00 | -5.27 | 0.00 | -100.00 | -23.05 | -4.97 | 5117.35 |
| 4885.00 | -7.24 | 0.00 | -60.00 | -13.83 | 4.26 | 5252.27 |
| 4882.00 | -9.88 | 0.00 | -50.00 | -11.52 | 3.55 | 5253.26 |
| 4825.00 | -13.17 | 0.00 | -80.00 | -18.44 | -2.84 | 5181.67 |
| 4696.00 | -16.46 | 0.00 | -120.00 | -27.66 | 4.74 | 5044.00 |
| 4805.00 | -20.42 | 0.00 | -90.00 | -20.74 | 8.99 | 5176.85 |
| 4671.00 | -23.05 | 0.00 | -130.00 | -29.96 | 12.08 | 5028.62 |
| 4882.00 | -27.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdd6 FILE: wdd6.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080489 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 11.3 | 4881 | 5278.4 |
| 2 | 140.00 | 220.00 | 549.25 | 11.4 | 4729 | 5095.5 |
| 3 | 110.00 | 200.00 | 549.18 | 11.5 | 4794 | 5169.1 |
| 4 | 150.00 | 220.00 | 549.35 | 11.6 | 4689 | 5067.7 |
| 5 | 110.00 | 240.00 | 549.23 | 11.7 | 4682 | 5050.8 |
| 6 | 70.00 | 210.00 | 549.15 | 11.8 | 4747 | 5125.3 |
| 7 | 140.00 | 170.00 | 549.27 | 11.8 | 4843 | 5249.0 |
| 8 | 90.00 | 220.00 | 549.17 | 11.9 | 4722 | 5101.9 |
| 9 | 100.00 | 110.00 | 549.21 | 11.9 | 4855 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4881.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4729.00 | -3.79 | 0.00 | -110.00 | -25.35 | 2.84 | 5095.46 |
| 4794.00 | -7.59 | 0.00 | -90.00 | -20.74 | -2.13 | 5169.10 |
| 4689.00 | -12.14 | 0.00 | -110.00 | -25.35 | 9.94 | 5067.71 |
| 4682.00 | -15.94 | 0.00 | -130.00 | -29.96 | 1.42 | 5050.81 |
| 4747.00 | -18.97 | 0.00 | -100.00 | -23.05 | -4.27 | 5125.28 |
| 4843.00 | -21.25 | 0.00 | -60.00 | -13.83 | 4.26 | 5248.99 |
| 4722.00 | -23.53 | 0.00 | -110.00 | -25.35 | -2.84 | 5101.95 |
| 4855.00 | -28.08 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdd7 FILE: wdd7.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080489 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 12.0 | 4853 | 5278.4 |
| 2 | 130.00 | 220.00 | 549.16 | 12.0 | 4733 | 5120.4 |
| 3 | 90.00 | 250.00 | 549.07 | 12.1 | 4652 | 5020.7 |
| 4 | 120.00 | 240.00 | 549.38 | 12.1 | 4650 | 5044.6 |
| 5 | 130.00 | 240.00 | 549.46 | 12.2 | 4627 | 5026.4 |
| 6 | 110.00 | 210.00 | 549.12 | 12.3 | 4755 | 5148.6 |
| 7 | 70.00 | 200.00 | 549.10 | 12.3 | 4744 | 5138.2 |
| 8 | 120.00 | 230.00 | 549.25 | 12.4 | 4676 | 5069.5 |
| 9 | 100.00 | 110.00 | 549.21 | 12.4 | 4845 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4853.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4733.00 | -0.62 | 0.00 | -110.00 | -25.35 | -3.56 | 5120.45 |
| 4652.00 | -1.85 | 0.00 | -140.00 | -32.27 | -10.18 | 5020.65 |
| 4650.00 | -3.39 | 0.00 | -130.00 | -29.96 | 12.08 | 5044.60 |
| 4627.00 | -4.32 | 0.00 | -130.00 | -29.96 | 17.76 | 5026.37 |
| 4755.00 | -5.55 | 0.00 | -100.00 | -23.05 | -6.40 | 5148.61 |
| 4744.00 | -6.17 | 0.00 | -90.00 | -20.74 | -7.82 | 5138.23 |
| 4676.00 | -7.10 | 0.00 | -120.00 | -27.66 | 2.84 | 5069.46 |
| 4845.00 | -8.64 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdd8 FILE: wdd8.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080489 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 12.4 | 4845 | 5278.4 |
| 2 | 130.00 | 210.00 | 549.10 | 12.5 | 4721 | 5118.9 |
| 3 | 90.00 | 240.00 | 549.08 | 12.6 | 4652 | 5040.0 |
| 4 | 140.00 | 220.00 | 549.25 | 12.6 | 4692 | 5103.9 |
| 5 | 110.00 | 230.00 | 549.20 | 12.6 | 4678 | 5086.9 |
| 6 | 100.00 | 220.00 | 549.27 | 12.7 | 4701 | 5121.7 |
| 7 | 90.00 | 250.00 | 549.07 | 12.8 | 4635 | 5034.3 |
| 8 | 100.00 | 230.00 | 549.24 | 12.8 | 4694 | 5119.0 |
| 9 | 100.00 | 110.00 | 549.21 | 12.9 | 4813 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4845.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4721.00 | -5.32 | 0.00 | -100.00 | -23.05 | -7.82 | 5118.87 |
| 4652.00 | -9.31 | 0.00 | -130.00 | -29.96 | -9.24 | 5040.00 |
| 4692.00 | -13.29 | 0.00 | -110.00 | -25.35 | 2.84 | 5103.88 |
| 4678.00 | -17.28 | 0.00 | -120.00 | -27.66 | -0.71 | 5086.89 |
| 4701.00 | -19.94 | 0.00 | -110.00 | -25.35 | 4.26 | 5121.67 |
| 4635.00 | -25.26 | 0.00 | -140.00 | -32.27 | -10.18 | 5034.34 |
| 4694.00 | -29.25 | 0.00 | -120.00 | -27.66 | 2.13 | 5118.97 |
| 4813.00 | -34.56 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdd9 FILE: wdd9.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080489 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 14.6 | 4822 | 5278.4 |
| 2 | 0.00 | 110.00 | 549.28 | 14.7 | 4713 | 5165.2 |
| 3 | 20.00 | 130.00 | 549.45 | 14.8 | 4736 | 5197.2 |
| 4 | 30.00 | 150.00 | 549.24 | 14.9 | 4743 | 5184.7 |
| 5 | 30.00 | 250.00 | 549.18 | 14.9 | 4608 | 5011.2 |
| 6 | 50.00 | 220.00 | 549.23 | 15.0 | 4676 | 5094.7 |
| 7 | 20.00 | 210.00 | 549.27 | 15.1 | 4670 | 5092.9 |
| 8 | 30.00 | 180.00 | 549.32 | 15.1 | 4714 | 5150.9 |
| 9 | 100.00 | 110.00 | 549.21 | 15.3 | 4825 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4822.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4713.00 | 0.42 | 0.00 | 0.00 | 0.00 | 4.97 | 5165.18 |
| 4736.00 | 0.75 | 0.00 | -20.00 | -4.61 | 17.05 | 5197.16 |
| 4743.00 | 1.25 | 0.00 | -40.00 | -9.22 | 2.13 | 5184.69 |
| 4608.00 | 1.58 | 0.00 | -140.00 | -32.27 | -2.13 | 5011.23 |
| 4676.00 | 1.83 | 0.00 | -110.00 | -25.35 | 1.18 | 5094.66 |
| 4670.00 | 2.24 | 0.00 | -100.00 | -23.05 | 4.02 | 5092.91 |
| 4714.00 | 2.49 | 0.00 | -70.00 | -16.13 | 7.81 | 5150.89 |
| 4825.00 | 3.24 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdd10 FILE: wdd10.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080489 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 15.3 | 4825 | 5278.4 |
| 2 | 70.00 | 190.00 | 549.13 | 15.3 | 4742 | 5165.0 |
| 3 | 50.00 | 240.00 | 549.14 | 15.4 | 4647 | 5052.2 |
| 4 | 30.00 | 250.00 | 549.10 | 15.4 | 4618 | 5016.0 |
| 5 | 20.00 | 190.00 | 549.36 | 15.5 | 4699 | 5136.8 |
| 6 | 50.00 | 170.00 | 549.16 | 15.6 | 4758 | 5191.6 |
| 7 | 30.00 | 180.00 | 549.32 | 15.6 | 4714 | 5153.6 |
| 8 | 30.00 | 210.00 | 549.00 | 15.7 | 4694 | 5102.8 |
| 9 | 100.00 | 110.00 | 549.21 | 15.9 | 4820 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4825.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4742.00 | -0.45 | 0.00 | -80.00 | -18.44 | -5.69 | 5165.03 |
| 4647.00 | -1.05 | 0.00 | -130.00 | -29.96 | -4.97 | 5052.21 |
| 4618.00 | -1.50 | 0.00 | -140.00 | -32.27 | -8.05 | 5015.95 |
| 4699.00 | -2.55 | 0.00 | -80.00 | -18.44 | 10.42 | 5136.79 |
| 4758.00 | -3.00 | 0.00 | -60.00 | -13.83 | -3.56 | 5191.60 |
| 4714.00 | -3.45 | 0.00 | -70.00 | -16.13 | 7.81 | 5153.59 |
| 4694.00 | -3.90 | 0.00 | -100.00 | -23.05 | -14.92 | 5102.79 |
| 4820.00 | -5.40 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdd11 FILE: wdd11.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080489 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 15.9 | 4820 | 5278.4 |
| 2 | 0.00 | 100.00 | 549.31 | 15.9 | 4720 | 5177.1 |
| 3 | 10.00 | 130.00 | 549.61 | 15.9 | 4711 | 5180.6 |
| 4 | 50.00 | 170.00 | 549.16 | 16.0 | 4747 | 5176.7 |
| 5 | 60.00 | 200.00 | 547.10 | 16.0 | 4864 | 5148.3 |
| 6 | 40.00 | 240.00 | 549.12 | 16.1 | 4627 | 5025.1 |
| 7 | 50.00 | 190.00 | 549.18 | 16.1 | 4731 | 5151.4 |
| 8 | 50.00 | 210.00 | 549.23 | 16.2 | 4680 | 5093.2 |
| 9 | 100.00 | 110.00 | 549.21 | 16.3 | 4834 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4820.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4720.00 | 2.42 | 0.00 | 10.00 | 2.30 | 6.84 | 5177.09 |
| 4711.00 | 3.63 | 0.00 | -20.00 | -4.61 | 28.18 | 5180.56 |
| 4747.00 | 5.44 | 0.00 | -60.00 | -13.83 | -3.56 | 5176.68 |
| 4864.00 | 6.65 | 0.00 | -90.00 | -20.74 | -150.16 | 5148.31 |
| 4627.00 | 8.47 | 0.00 | -130.00 | -29.96 | -6.40 | 5025.07 |
| 4731.00 | 10.28 | 0.00 | -80.00 | -18.44 | -2.13 | 5151.37 |
| 4680.00 | 12.10 | 0.00 | -100.00 | -23.05 | 1.18 | 5093.17 |
| 4834.00 | 15.12 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdd12 FILE: wdd12.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080489 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 16.3 | 4835 | 5278.4 |
| 2 | 70.00 | 220.00 | 549.09 | 16.4 | 4674 | 5069.6 |
| 3 | 40.00 | 250.00 | 549.09 | 16.4 | 4638 | 5022.9 |
| 4 | 40.00 | 240.00 | 549.12 | 16.5 | 4644 | 5033.5 |
| 5 | 10.00 | 220.00 | 549.40 | 16.5 | 4631 | 5042.8 |
| 6 | 0.00 | 170.00 | 549.34 | 16.5 | 4703 | 5127.8 |
| 7 | 10.00 | 170.00 | 549.14 | 16.6 | 4700 | 5109.9 |
| 8 | 90.00 | 130.00 | 549.19 | 16.6 | 4847 | 5280.7 |
| 9 | 100.00 | 110.00 | 549.21 | 16.7 | 4840 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4835.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4674.00 | 1.00 | 0.00 | -110.00 | -25.35 | -8.53 | 5069.58 |
| 4638.00 | 1.60 | 0.00 | -140.00 | -32.27 | -8.76 | 5022.94 |
| 4644.00 | 2.20 | 0.00 | -130.00 | -29.96 | -6.40 | 5033.50 |
| 4631.00 | 3.40 | 0.00 | -110.00 | -25.35 | 13.50 | 5042.76 |
| 4703.00 | 3.40 | 0.00 | -60.00 | -13.83 | 9.24 | 5127.79 |
| 4700.00 | 3.80 | 0.00 | -60.00 | -13.83 | -4.97 | 5109.94 |
| 4847.00 | 4.60 | 0.00 | -20.00 | -4.61 | -1.42 | 5280.68 |
| 4840.00 | 5.40 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdd13 FILE: wdd13.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080489 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 16.7 | 4841 | 5278.4 |
| 2 | 15.00 | 125.00 | 549.64 | 16.8 | 4733 | 5183.4 |
| 3 | 10.00 | 160.00 | 549.30 | 16.9 | 4740 | 5156.8 |
| 4 | 20.00 | 200.00 | 549.25 | 16.9 | 4718 | 5116.8 |
| 5 | 0.00 | 250.00 | 549.19 | 17.0 | 4606 | 4977.1 |
| 6 | 10.00 | 200.00 | 549.30 | 17.1 | 4702 | 5096.9 |
| 7 | 20.00 | 160.00 | 549.31 | 17.1 | 4763 | 5170.2 |
| 8 | 80.00 | 240.00 | 549.26 | 17.2 | 4684 | 5059.7 |
| 9 | 100.00 | 110.00 | 549.21 | 17.3 | 4868 | 5278.4 |

----------< CORRECTIONS >----------

| READI | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4841. | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4733.00 | 5.67 | 0.00 | -15.00 | -3.46 | 30.79 | 5183.36 |
| 4740.00 | 7.29 | 0.00 | -50.00 | -11.52 | 6.39 | 5156.84 |
| 4718.00 | 10.53 | 0.00 | -90.00 | -20.74 | 2.61 | 5116.83 |
| 4606.00 | 13.77 | 0.00 | -140.00 | -32.27 | -1.42 | 4977.07 |
| 4702.00 | 17.01 | 0.00 | -90.00 | -20.74 | 6.39 | 5096.86 |
| 4763.00 | 19.44 | 0.00 | -50.00 | -11.52 | 7.10 | 5170.24 |
| 4684.00 | 22.68 | 0.00 | -130.00 | -29.96 | 3.55 | 5059.68 |
| 4868.00 | 29.16 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdd14 FILE: wdd14.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE- | 080489 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 17.3 | 4868 | 5278.4 |
| 2 | 60.00 | 250.00 | 549.19 | 17.4 | 4678 | 5034.0 |
| 3 | 30.00 | 220.00 | 548.99 | 17.4 | 4748 | 5098.6 |
| 4 | 60.00 | 240.00 | 549.24 | 17.5 | 4706 | 5063.8 |
| 5 | 80.00 | 230.00 | 549.09 | 17.5 | 4748 | 5098.2 |
| 6 | 50.00 | 210.00 | 549.23 | 17.5 | 4753 | 5114.0 |
| 7 | 0.00 | 220.00 | 549.28 | 17.6 | 4690 | 5044.8 |
| 8 | 20.00 | 230.00 | 549.14 | 17.6 | 4712 | 5052.2 |
| 9 | 100.00 | 110.00 | 549.21 | 17.7 | 4897 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4868.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4678.00 | 5.22 | 0.00 | -140.00 | -32.27 | -1.66 | 5033.99 |
| 4748.00 | 9.14 | 0.00 | -110.00 | -25.35 | -15.63 | 5098.62 |
| 4706.00 | 11.75 | 0.00 | -130.00 | -29.96 | 2.13 | 5063.80 |
| 4748.00 | 14.36 | 0.00 | -120.00 | -27.66 | -8.53 | 5098.20 |
| 4753.00 | 18.27 | 0.00 | -100.00 | -23.05 | 1.18 | 5114.00 |
| 4690.00 | 20.88 | 0.00 | -110.00 | -25.35 | 4.97 | 5044.84 |
| 4712.00 | 24.80 | 0.00 | -120.00 | -27.66 | -5.21 | 5052.19 |
| 4897.00 | 31.32 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wde1 FILE: wde1.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080589 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 8.4 | 4979 | 5278.4 |
| 2 | 80.00 | 250.00 | 549.19 | 8.5 | 4749 | 4996.1 |
| 3 | 70.00 | 230.00 | 549.05 | 8.5 | 4813 | 5059.8 |
| 4 | 60.00 | 250.00 | 549.19 | 8.6 | 4754 | 5001.0 |
| 5 | 50.00 | 250.00 | 549.08 | 8.7 | 4786 | 5027.6 |
| 6 | 30.00 | 190.00 | 549.36 | 8.7 | 4863 | 5144.6 |
| 7 | 20.00 | 140.00 | 549.31 | 8.8 | 4882 | 5172.8 |
| 8 | 25.00 | 125.00 | 549.41 | 8.9 | 4896 | 5198.4 |
| 9 | 100.00 | 110.00 | 549.21 | 9.0 | 4980 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4979.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4749.00 | 0.15 | 0.00 | -140.00 | -32.27 | -1.42 | 4996.09 |
| 4813.00 | 0.28 | 0.00 | -120.00 | -27.66 | -11.37 | 5059.75 |
| 4754.00 | 0.37 | 0.00 | -140.00 | -32.27 | -1.66 | 5001.04 |
| 4786.00 | 0.52 | 0.00 | -140.00 | -32.27 | -9.48 | 5027.63 |
| 4863.00 | 0.65 | 0.00 | -80.00 | -18.44 | 10.66 | 5144.63 |
| 4882.00 | 0.77 | 0.00 | -30.00 | -6.91 | 6.87 | 5172.77 |
| 4896.00 | 0.86 | 0.00 | -15.00 | -3.46 | 13.97 | 5198.35 |
| 4980.00 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wde2 FILE: wde2.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080589 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 9.0 | 4980 | 5278.4 |
| 2 | 0.00 | 140.00 | 549.36 | 9.0 | 4857 | 5149.3 |
| 3 | 0.00 | 115.00 | 549.31 | 9.1 | 4862 | 5157.2 |
| 4 | 5.00 | 125.00 | 549.32 | 9.1 | 4855 | 5152.9 |
| 5 | 10.00 | 250.00 | 549.32 | 9.2 | 4719 | 4973.0 |
| 6 | 40.00 | 230.00 | 549.14 | 9.2 | 4809 | 5062.2 |
| 7 | 20.00 | 230.00 | 549.14 | 9.3 | 4807 | 5060.0 |
| 8 | 20.00 | 180.00 | 549.39 | 9.3 | 4847 | 5132.8 |
| 9 | 100.00 | 110.00 | 549.21 | 9.4 | 4978 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4980.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4857.00 | -0.33 | 0.00 | -30.00 | -6.91 | 10.42 | 5149.34 |
| 4862.00 | -0.58 | 0.00 | -5.00 | -1.15 | 6.86 | 5157.20 |
| 4855.00 | -0.75 | 0.00 | -15.00 | -3.46 | 12.31 | 5152.94 |
| 4719.00 | -1.00 | 0.00 | -140.00 | -32.27 | 7.81 | 4972.99 |
| 4809.00 | -1.16 | 0.00 | -120.00 | -27.66 | -4.97 | 5062.19 |
| 4807.00 | -1.41 | 0.00 | -120.00 | -27.66 | -5.21 | 5060.04 |
| 4847.00 | -1.58 | 0.00 | -70.00 | -16.13 | 12.67 | 5132.81 |
| 4978.00 | -2.16 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wde3 FILE: wde3.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080589 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 9.4 | 4978 | 5278.4 |
| 2 | 70.00 | 250.00 | 549.20 | 9.5 | 4763 | 5013.5 |
| 3 | 20.00 | 170.00 | 549.33 | 9.6 | 4867 | 5154.0 |
| 4 | 0.00 | 190.00 | 549.33 | 9.7 | 4817 | 5095.9 |
| 5 | 20.00 | 220.00 | 549.20 | 9.7 | 4787 | 5047.5 |
| 6 | 50.00 | 200.00 | 549.17 | 9.8 | 4841 | 5108.8 |
| 7 | 40.00 | 160.00 | 549.38 | 9.9 | 4879 | 5174.0 |
| 8 | 30.00 | 170.00 | 549.20 | 9.9 | 4875 | 5155.2 |
| 9 | 100.00 | 110.00 | 549.21 | 10.0 | 4975 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4978.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4763.00 | -0.60 | 0.00 | -140.00 | -32.27 | -0.95 | 5013.52 |
| 4867.00 | -0.94 | 0.00 | -60.00 | -13.83 | 8.40 | 5153.98 |
| 4817.00 | -1.36 | 0.00 | -80.00 | -18.44 | 8.53 | 5095.91 |
| 4787.00 | -1.71 | 0.00 | -110.00 | -25.35 | -0.95 | 5047.46 |
| 4841.00 | -2.05 | 0.00 | -90.00 | -20.74 | -2.84 | 5108.84 |
| 4879.00 | -2.30 | 0.00 | -50.00 | -11.52 | 11.84 | 5174.04 |
| 4875.00 | -2.64 | 0.00 | -60.00 | -13.83 | -0.71 | 5155.21 |
| 4975.00 | -3.24 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wde4 FILE: wde4.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080589 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 10.1 | 4975 | 5278.4 |
| 2 | 30.00 | 200.00 | 549.22 | 10.1 | 4844 | 5123.1 |
| 3 | 20.00 | 250.00 | 549.21 | 10.1 | 4734 | 4995.2 |
| 4 | 10.00 | 250.00 | 549.32 | 10.2 | 4720 | 4991.0 |
| 5 | 0.00 | 230.00 | 549.23 | 10.2 | 4738 | 5013.4 |
| 6 | 10.00 | 190.00 | 549.35 | 10.3 | 4805 | 5108.2 |
| 7 | 20.00 | 190.00 | 549.40 | 10.3 | 4825 | 5136.4 |
| 8 | 0.00 | 160.00 | 549.26 | 10.4 | 4816 | 5128.4 |
| 9 | 100.00 | 110.00 | 549.21 | 10.6 | 4930 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4975.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4844.00 | -6.27 | 0.00 | -90.00 | -20.74 | 0.71 | 5123.10 |
| 4734.00 | -9.41 | 0.00 | -140.00 | -32.27 | 0.00 | 4995.19 |
| 4720.00 | -12.54 | 0.00 | -140.00 | -32.27 | 7.81 | 4991.02 |
| 4738.00 | -17.25 | 0.00 | -120.00 | -27.66 | 1.42 | 5013.38 |
| 4805.00 | -21.95 | 0.00 | -80.00 | -18.44 | 9.94 | 5108.19 |
| 4825.00 | -25.09 | 0.00 | -80.00 | -18.44 | 13.38 | 5136.36 |
| 4816.00 | -29.79 | 0.00 | -50.00 | -11.52 | 3.55 | 5128.44 |
| 4930.00 | -48.60 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wde5 FILE: wde5.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080589 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 10.6 | 4930 | 5278.4 |
| 2 | 30.00 | 230.00 | 549.24 | 10.6 | 4741 | 5048.5 |
| 3 | 0.00 | 180.00 | 549.36 | 10.7 | 4791 | 5122.5 |
| 4 | 0.00 | 170.00 | 549.34 | 10.8 | 4789 | 5121.1 |
| 5 | 10.00 | 210.00 | 549.36 | 10.8 | 4754 | 5075.4 |
| 6 | 10.00 | 230.00 | 549.09 | 10.9 | 4763 | 5061.0 |
| 7 | 0.00 | 210.00 | 549.26 | 10.9 | 4730 | 5042.1 |
| 8 | 100.00 | 170.00 | 549.14 | 11.0 | 4926 | 5254.4 |
| 9 | 100.00 | 110.00 | 549.21 | 11.1 | 4931 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4930.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4741.00 | 0.17 | 0.00 | -120.00 | -27.66 | 2.13 | 5048.51 |
| 4791.00 | 0.28 | 0.00 | -70.00 | -16.13 | 10.66 | 5122.46 |
| 4789.00 | 0.38 | 0.00 | -60.00 | -13.83 | 9.24 | 5121.08 |
| 4754.00 | 0.49 | 0.00 | -100.00 | -23.05 | 10.66 | 5075.38 |
| 4763.00 | 0.59 | 0.00 | -120.00 | -27.66 | -8.76 | 5060.96 |
| 4730.00 | 0.70 | 0.00 | -100.00 | -23.05 | 3.55 | 5042.14 |
| 4926.00 | 0.87 | 0.00 | -60.00 | -13.83 | -4.97 | 5254.36 |
| 4931.00 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wde6 FILE: wde6.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080589 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 11.2 | 4931 | 5278.4 |
| 2 | 120.00 | 50.00 | 549.21 | 11.2 | 4855 | 5211.3 |
| 3 | 120.00 | 30.00 | 549.20 | 11.3 | 4827 | 5187.2 |
| 4 | 140.00 | 30.00 | 548.92 | 11.3 | 4832 | 5173.9 |
| 5 | 140.00 | 50.00 | 549.05 | 11.4 | 4855 | 5206.4 |
| 6 | 140.00 | 70.00 | 549.39 | 11.4 | 4858 | 5230.6 |
| 7 | 100.00 | 110.00 | 549.21 | 11.4 | 4920 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4931.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4855.00 | -1.40 | 0.00 | 60.00 | 13.83 | -0.24 | 5211.25 |
| 4827.00 | -3.49 | 0.00 | 80.00 | 18.44 | -0.71 | 5187.25 |
| 4832.00 | -4.89 | 0.00 | 80.00 | 18.44 | -20.84 | 5173.91 |
| 4855.00 | -7.69 | 0.00 | 60.00 | 13.83 | -11.37 | 5206.41 |
| 4858.00 | -9.09 | 0.00 | 40.00 | 9.22 | 12.79 | 5250.60 |
| 4920.00 | -11.88 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wde8 FILE: wde8.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080589 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 17.9 | 4899 | 5278.4 |
| 2 | 120.00 | 10.00 | 549.05 | 18.0 | 4800 | 5178.2 |
| 3 | 140.00 | 10.00 | 548.78 | 18.0 | 4818 | 5172.3 |
| 4 | 160.00 | 50.00 | 548.46 | 18.1 | 4889 | 5214.5 |
| 5 | 160.00 | 70.00 | 548.94 | 18.1 | 4871 | 5220.9 |
| 6 | 160.00 | 30.00 | 548.30 | 18.2 | 4877 | 5187.4 |
| 7 | 150.00 | 20.00 | 548.62 | 18.2 | 4848 | 5177.4 |
| 8 | 160.00 | 10.00 | 548.33 | 18.3 | 4848 | 5155.4 |
| 9 | 100.00 | 110.00 | 549.21 | 18.4 | 4931 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4899.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4800.00 | 4.94 | 0.00 | 100.00 | 23.05 | -11.37 | 5178.16 |
| 4818.00 | 11.11 | 0.00 | 100.00 | 23.05 | -30.55 | 5172.25 |
| 4889.00 | 13.58 | 0.00 | 60.00 | 13.83 | -53.29 | 5214.51 |
| 4871.00 | 17.28 | 0.00 | 40.00 | 9.22 | -19.19 | 5220.86 |
| 4877.00 | 20.98 | 0.00 | 80.00 | 18.44 | -64.66 | 5187.38 |
| 4848.00 | 24.69 | 0.00 | 90.00 | 20.74 | -41.92 | 5177.40 |
| 4848.00 | 28.39 | 0.00 | 100.00 | 23.05 | -62.53 | 5155.40 |
| 4931.00 | 34.56 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wde7 FILE: wde7.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080589 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 17.5 | 4901 | 5278.4 |
| 2 | 160.00 | 90.00 | 549.09 | 17.5 | 4854 | 5223.9 |
| 3 | 160.00 | 160.00 | 549.06 | 17.5 | 4894 | 5249.1 |
| 4 | 140.00 | 150.00 | 549.30 | 17.6 | 4914 | 5290.4 |
| 5 | 160.00 | 190.00 | 549.24 | 17.7 | 4835 | 5191.8 |
| 6 | 160.00 | 70.00 | 548.94 | 17.7 | 4846 | 5210.4 |
| 7 | 130.00 | 70.00 | 549.32 | 17.8 | 4860 | 5252.8 |
| 8 | 100.00 | 110.00 | 549.21 | 17.9 | 4899 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4901.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4854.00 | -0.25 | 0.00 | 20.00 | 4.61 | -8.53 | 5223.92 |
| 4894.00 | -0.50 | 0.00 | -50.00 | -11.52 | -10.66 | 5249.10 |
| 4914.00 | -0.83 | 0.00 | -40.00 | -9.22 | 6.39 | 5290.40 |
| 4835.00 | -1.08 | 0.00 | -80.00 | -18.44 | 2.13 | 5191.84 |
| 4846.00 | -1.41 | 0.00 | 40.00 | 9.22 | -19.19 | 5210.39 |
| 4860.00 | -1.74 | 0.00 | 40.00 | 9.22 | 7.81 | 5252.85 |
| 4899.00 | -2.16 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

<<< DATA SUMMARY >>>

PROGRAM: wdf3 FILE: wdf3.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.06008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080689 |

< FIELD DATA AND RESULTS >

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 16.3 | 4895 | 5278.4 |
| 2 | 100.00 | 50.00 | 549.26 | 16.3 | 4819 | 5211.4 |
| 3 | 100.00 | 30.00 | 549.25 | 16.4 | 4794 | 5186.5 |
| 4 | 30.00 | 70.00 | 549.06 | 16.4 | 4826 | 5197.2 |
| 5 | 40.00 | 80.00 | 549.43 | 16.4 | 4813 | 5206.0 |
| 6 | 0.00 | 150.00 | 549.20 | 16.5 | 4784 | 5141.3 |
| 7 | 10.00 | 180.00 | 549.40 | 16.5 | 4766 | 5126.9 |
| 8 | 60.00 | 250.00 | 549.19 | 16.6 | 4695 | 5017.2 |
| 9 | 70.00 | 240.00 | 549.27 | 16.6 | 4684 | 5012.4 |
| 10 | 100.00 | 110.00 | 549.21 | 16.7 | 4909 | 5278.4 |

< CORRECTIONS >

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4895.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4819.00 | 2.24 | 0.00 | 60.00 | 13.83 | 3.55 | 5211.41 |
| 4794.00 | 3.92 | 0.00 | 80.00 | 18.44 | 2.72 | 5186.50 |
| 4826.00 | 5.04 | 0.00 | 40.00 | 9.22 | -10.78 | 5197.22 |
| 4813.00 | 6.16 | 0.00 | 30.00 | 6.91 | 15.51 | 5206.05 |
| 4784.00 | 7.28 | 0.00 | -40.00 | -9.22 | -0.71 | 5141.25 |
| 4766.00 | 9.52 | 0.00 | -70.00 | -16.13 | 13.50 | 5126.87 |
| 4695.00 | 11.20 | 0.00 | -140.00 | -32.27 | -1.66 | 5017.21 |
| 4684.00 | 12.32 | 0.00 | -130.00 | -29.96 | 4.26 | 5012.43 |
| 4909.00 | 15.12 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

<<< DATA SUMMARY >>>

PROGRAM: wdf4 FILE: wdf4.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.06008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080689 |

< FIELD DATA AND RESULTS >

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 16.7 | 4908 | 5278.4 |
| 2 | 80.00 | 60.00 | 549.44 | 16.8 | 4837 | 5228.5 |
| 3 | 0.00 | 60.00 | 549.28 | 16.8 | 4795 | 5171.0 |
| 4 | 0.00 | 105.00 | 549.37 | 16.9 | 4811 | 5183.5 |
| 5 | 0.00 | 30.00 | 549.32 | 16.9 | 4779 | 5162.1 |
| 6 | 10.00 | 250.00 | 549.27 | 17.0 | 4669 | 4987.8 |
| 7 | 10.00 | 220.00 | 549.35 | 17.0 | 4726 | 5061.4 |
| 8 | 110.00 | 220.00 | 549.06 | 17.1 | 4809 | 5127.5 |
| 9 | 80.00 | 170.00 | 549.41 | 17.1 | 4855 | 5214.2 |
| 10 | 100.00 | 110.00 | 549.21 | 17.3 | 4916 | 5278.4 |

< CORRECTIONS >

| READING | DRIFY | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4908.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4837.00 | 1.05 | 0.00 | 50.00 | 11.52 | 16.34 | 5228.48 |
| 4795.00 | 1.83 | 0.00 | 50.00 | 11.52 | 4.97 | 5170.97 |
| 4811.00 | 2.36 | 0.00 | 5.00 | 1.15 | 11.13 | 5183.51 |
| 4779.00 | 3.14 | 0.00 | 80.00 | 18.44 | 7.81 | 5162.13 |
| 4669.00 | 4.45 | 0.00 | -140.00 | -32.27 | 4.26 | 4987.75 |
| 4726.00 | 4.97 | 0.00 | -110.00 | -25.35 | 9.94 | 5061.39 |
| 4809.00 | 6.28 | 0.00 | -110.00 | -25.35 | -12.32 | 5127.47 |
| 4855.00 | 7.07 | 0.00 | -60.00 | -13.83 | 13.97 | 5214.18 |
| 4916.00 | 8.64 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdf1 FILE: wdf1.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080689 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 14.2 | 4900 | 5278.4 |
| 2 | 130.00 | 70.00 | 549.32 | 14.3 | 4835 | 5226.1 |
| 3 | 90.00 | 70.00 | 549.30 | 14.3 | 4849 | 5241.1 |
| 4 | 130.00 | 80.00 | 549.25 | 14.4 | 4836 | 5222.4 |
| 5 | 170.00 | 40.00 | 548.23 | 14.4 | 4836 | 5160.2 |
| 6 | 140.00 | 150.00 | 549.30 | 14.4 | 4891 | 5271.1 |
| 7 | 160.00 | 120.00 | 549.05 | 14.5 | 4879 | 5248.2 |
| 8 | 130.00 | 110.00 | 549.15 | 14.5 | 4856 | 5233.7 |
| 9 | 100.00 | 110.00 | 549.21 | 14.5 | 4893 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4835.00 | -0.89 | 0.00 | 40.00 | 9.22 | 7.81 | 5226.07 |
| 4849.00 | -2.22 | 0.00 | 40.00 | 9.22 | 6.39 | 5241.10 |
| 4836.00 | -3.56 | 0.00 | 30.00 | 6.91 | 2.72 | 5222.42 |
| 4836.00 | -4.45 | 0.00 | 70.00 | 16.13 | -69.63 | 5160.17 |
| 4891.00 | -5.34 | 0.00 | -40.00 | -9.22 | 6.39 | 5271.14 |
| 4879.00 | -6.23 | 0.00 | -10.00 | -2.30 | -11.37 | 5248.22 |
| 4856.00 | -7.12 | 0.00 | 0.00 | 0.00 | -4.26 | 5233.68 |
| 4893.00 | -7.56 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdf2 FILE: wdf2.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080689 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 15.8 | 4883 | 5278.4 |
| 2 | 110.00 | 110.00 | 549.31 | 15.8 | 4874 | 5274.4 |
| 3 | 130.00 | 160.00 | 549.17 | 15.9 | 4880 | 5257.3 |
| 4 | 110.00 | 190.00 | 549.24 | 15.9 | 4820 | 5189.7 |
| 5 | 70.00 | 180.00 | 549.14 | 16.0 | 4821 | 5184.7 |
| 6 | 60.00 | 180.00 | 547.02 | 16.0 | 4958 | 5180.5 |
| 7 | 20.00 | 160.00 | 549.31 | 16.1 | 4784 | 5158.4 |
| 8 | 40.00 | 160.00 | 549.38 | 16.1 | 4788 | 5166.1 |
| 9 | 100.00 | 110.00 | 549.21 | 16.3 | 4895 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4883.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4874.00 | 1.30 | 0.00 | 0.00 | 0.00 | 7.10 | 5274.44 |
| 4880.00 | 3.46 | 0.00 | -50.00 | -11.52 | -2.84 | 5257.29 |
| 4820.00 | 4.32 | 0.00 | -80.00 | -18.44 | 2.13 | 5189.88 |
| 4821.00 | 5.62 | 0.00 | -70.00 | -16.13 | -4.97 | 5184.66 |
| 4958.00 | 6.91 | 0.00 | -70.00 | -16.13 | -155.84 | 5180.47 |
| 4784.00 | 8.64 | 0.00 | -50.00 | -11.52 | 7.10 | 5158.36 |
| 4788.00 | 9.94 | 0.00 | -50.00 | -11.52 | 11.84 | 5166.12 |
| 4895.00 | 12.96 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |

**********<<< DATA SUMMARY >>>**********

PROGRAM: wdg1 FILE: wdg1.gpf

| | |
|---|---|
| BASE STATION (X,Y) | 100 110 |
| REFERENCE ELEV. | 549.21 |
| DENSITY | 1.8 |
| GRID ROTATION | 0 |
| METER FACTOR | 1.08008 |
| REFERENCE READING | 4887 |
| LATITUDE | 0343000 |
| LONGITUDE | 90.0 |
| DATE | 080789 |

----------< FIELD DATA AND RESULTS >----------

| STATION | COORD(X,Y) | | ELEV | TIME | READING | G(UGALS) |
|---|---|---|---|---|---|---|
| 1 | 100.00 | 110.00 | 549.21 | 8.4 | 4935 | 5278.4 |
| 2 | 170.00 | 10.00 | 548.11 | 8.4 | 4874 | 5155.0 |
| 3 | 110.00 | 80.00 | 549.19 | 8.5 | 4919 | 5262.1 |
| 4 | 150.00 | 210.00 | 549.06 | 8.5 | 4835 | 5129.4 |
| 5 | 10.00 | 220.00 | 549.27 | 8.6 | 4763 | 5062.1 |
| 6 | 80.00 | 250.00 | 549.19 | 8.6 | 4738 | 5020.6 |
| 7 | 100.00 | 110.00 | 549.21 | 8.8 | 4950 | 5278.4 |

----------< CORRECTIONS >----------

| READING | DRIFT | TIDE | DEPART | LATDE | FA/GB | G(UGALS) |
|---|---|---|---|---|---|---|
| 4935.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |
| 4874.00 | 2.11 | 0.00 | 100.00 | 23.05 | -78.39 | 5155.01 |
| 4919.00 | 4.23 | 0.00 | 30.00 | 6.91 | -1.66 | 5262.10 |
| 4835.00 | 7.04 | 0.00 | -100.00 | -23.05 | -10.89 | 5129.36 |
| 4763.00 | 9.16 | 0.00 | -110.00 | -25.35 | 4.02 | 5062.09 |
| 4738.00 | 11.27 | 0.00 | -140.00 | -32.27 | -1.42 | 5020.61 |
| 4950.00 | 16.20 | 0.00 | 0.00 | 0.00 | 0.00 | 5278.35 |